```
Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg
    50                  55                  60

Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr
 65              70                  75                      80

Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg
                85              90                  95

Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser
            100             105             110

Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile
        115             120             125

Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp
    130             135             140

Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala
145             150             155                     160

Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala
            165             170             175

Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu
            180             185             190

Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu
        195             200             205

Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp
    210             215             220

His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr
225             230             235                     240

Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn
            245             250             255

Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Xaa Ile Ile Tyr Arg
            260             265             270

Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr
        275             280             285

Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro
    290             295             300

Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn
305             310             315                     320
```

Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His
                325   330   335

Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu
                340   345   350

Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His
                355   360   365

Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val
                370   375   380

Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile
385   390   395   400

Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys
                405   410   415

Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg
                420   425   430

Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser
                435   440   445

Pro Asp Arg Pro Arg Arg Lys Lys Gly Xaa Lys Xaa Xaa Lys Xaa Ala
    450   455   460

Pro Pro
465

<210> 1217
<211> 514
<212> PRT
<213> Homo sapiens

<400> 1217
Met Ser Trp Pro Arg Arg Leu Leu Leu Arg Tyr Leu Phe Pro Ala Leu
  1   5   10   15

Leu Leu His Gly Leu Gly Glu Gly Ser Ala Leu Leu His Pro Asp Ser
                20   25   30

Arg Ser His Pro Arg Ser Leu Glu Lys Ser Ala Trp Arg Ala Phe Lys
                35   40   45

Glu Ser Gln Cys His His Met Leu Lys His Leu His Asn Gly Ala Arg
    50   55   60

Ile Thr Val Gln Met Pro Pro Thr Ile Glu Gly His Trp Val Ser Thr
 65   70   75   80

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Gly Cys Glu Val Arg Ser Gly Pro Glu Phe Ile Thr Arg Ser Tyr Arg
            85   90   95

Phe Tyr His Asn Asn Thr Phe Lys Ala Tyr Gln Phe Tyr Tyr Gly Ser
            100   105   110

Asn Arg Cys Thr Asn Pro Thr Tyr Thr Leu Ile Ile Arg Gly Lys Ile
            115   120   125

Arg Leu Arg Gln Ala Ser Trp Ile Ile Arg Gly Gly Thr Glu Ala Asp
    130   135   140

Tyr Gln Leu His Asn Val Gln Val Ile Cys His Thr Glu Ala Val Ala
145   150   155   160

Glu Lys Leu Gly Gln Gln Val Asn Arg Thr Cys Pro Gly Phe Leu Ala
            165   170   175

Asp Gly Gly Pro Trp Val Gln Asp Val Ala Tyr Asp Leu Trp Arg Glu
            180   185   190

Glu Asn Gly Cys Glu Cys Thr Lys Ala Val Asn Phe Ala Met His Glu
            195   200   205

Leu Gln Leu Ile Arg Val Glu Lys Gln Tyr Leu His His Asn Leu Asp
    210   215   220

His Leu Val Glu Glu Leu Phe Leu Gly Asp Ile His Thr Asp Ala Thr
225   230   235   240

Gln Arg Met Phe Tyr Arg Pro Ser Ser Tyr Gln Pro Pro Leu Gln Asn
            245   250   255

Ala Lys Asn His Asp His Ala Cys Ile Ala Cys Arg Ile Ile Tyr Arg
            260   265   270

Ser Asp Glu His His Pro Pro Ile Leu Pro Pro Lys Ala Asp Leu Thr
            275   280   285

Ile Gly Leu His Gly Glu Trp Val Ser Gln Arg Cys Glu Val Arg Pro
    290   295   300

Glu Val Leu Phe Leu Thr Arg His Phe Ile Phe His Asp Asn Asn Asn
305   310   315   320

Thr Trp Glu Gly His Tyr Tyr His Tyr Ser Asp Pro Val Cys Lys His
            325   330   335

Pro Thr Phe Ser Ile Tyr Ala Arg Gly Arg Tyr Ser Arg Gly Val Leu
            340   345   350

```
Ser Ser Arg Val Met Gly Gly Thr Glu Phe Val Phe Lys Val Asn His
        355                 360                 365

Met Lys Val Thr Pro Met Asp Ala Ala Thr Ala Ser Leu Leu Asn Val
        370                 375                 380

Phe Asn Gly Asn Glu Cys Gly Ala Glu Gly Ser Trp Gln Val Gly Ile
385                 390                 395                     400

Gln Gln Asp Val Thr His Thr Asn Gly Cys Val Ala Leu Gly Ile Lys
                405                 410                 415

Leu Pro His Thr Glu Tyr Glu Ile Phe Lys Met Glu Gln Asp Ala Arg
                420                 425                 430

Gly Arg Tyr Leu Leu Phe Asn Gly Gln Arg Pro Ser Asp Gly Ser Ser
            435                 440                 445

Pro Asp Arg Pro Glu Lys Arg Ala Thr Ser Tyr Gln Met Pro Leu Val
        450                 455                 460

Gln Cys Ala Ser Ser Ser Pro Arg Ala Glu Asp Leu Ala Glu Asp Ser
465                 470                 475                     480

Gly Ser Ser Leu Tyr Gly Arg Ala Pro Gly Arg His Thr Trp Ser Leu
                485                 490                 495

Leu Leu Ala Ala Leu Ala Cys Leu Val Pro Leu Leu His Trp Asn Ile
            500                 505                 510

Arg Arg
```

<210> 1218
<211> 36
<212> PRT
<213> Homo sapiens

<400> 1218
```
Met Asn Asn Ser Ile Ala Ala Gln Ala Ser Lys Phe Val Ile Leu Tyr
  1               5                 10                  15

Leu Phe Ile Leu Ser Phe Pro Lys Gln Cys Ile Cys His Ile Leu Ser
            20                25                  30

Glu Met Val Trp
        35
```

<210> 1219
<211> 101
<212> PRT
<213> Homo sapiens

<400> 1219
```
Gln Ala Ser Lys Ser Leu Leu Pro His Gly Ile His Thr Ile Leu Asn
 1               5                  10                  15

Val Ile Tyr Ile Asn Leu Thr Ser Val Gly Ile Met Thr Met Cys Met
                20                  25                  30

Lys Cys Asn Leu Pro Lys Lys Phe Leu Arg Asp Ser Val Ser Lys Val
            35                  40                  45

Leu Ile Asp Ser Trp Ser His Arg Tyr Leu Leu Thr Ser Met Tyr Gln
        50                  55                  60

Tyr Ser Arg Leu Ser Glu Glu Lys Gln Val Ile Ser Ile Tyr Cys Ile
65                  70                  75                  80

Ile Tyr Thr Asn Asn Leu Gly Thr Leu Lys Asp Ser Tyr Gln Leu Gly
                85                  90                  95

Trp Trp Glu Pro Ser
            100
```

<210> 1220
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1220
```
His Leu Leu Glu Val Thr Pro Cys Arg Leu Pro Val Pro Glu Phe Pro
 1               5                  10                  15

Gly Arg Thr Pro Arg Gly Ser Arg Thr Pro Asp Met Arg Arg Leu Leu
                20                  25                  30

Leu Val Thr Ser Leu Val Val Val Leu Leu Trp Glu Ala Gly Ala Val
            35                  40                  45

Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val Lys His Trp Pro Ser
        50                  55                  60

Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg Val Val Glu Pro Pro
65                  70                  75                  80

Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro Val Gln Lys Pro Lys
                85                  90                  95
```

Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln Gly Arg Gly Pro Ile
            100   105   110

Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg
            115   120   125

Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro
    130   135   140

Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn
145   150   155   160

His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His
                165   170   175

Pro Gln

<210> 1221
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1221
Met Asn Asn Ser Ile Ala Ala Gln Ala Ser Lys Phe Val Ile Leu Tyr
  1   5   10   15

Leu Phe Ile Leu Ser Phe Pro Lys Gln Cys Ile Cys His Ile Leu Val
                20   25   30

Arg Trp Ser Gly Lys Ser His Phe
            35   40

<210> 1222
<211> 39
<212> PRT
<213> Homo sapiens

<400> 1222
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe
  1   5   10   15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser
                20   25   30

Cys Arg Glu Pro Thr Ser Ser
            35

<210> 1223
<211> 54
<212> PRT
<213> Homo sapiens

<400> 1223
Gly Thr Leu Gln Arg Gly Phe Leu Leu Cys Ser Leu Val Pro Gly Trp
 1   5   10   15

Gly Trp Gly Thr Pro Ala Ala Leu Thr Asp Gly Ser Pro Phe Ser Leu
            20   25   30

Ser Gly His Pro Ser Pro Thr Leu Thr Cys Thr Lys Phe Ser Pro Gln
        35   40   45

Leu Leu Cys Val Ala Pro
    50

<210> 1224
<211> 39
<212> PRT
<213> Homo sapiens

<400> 1224
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe
 1   5   10   15

Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser
            20   25   30

Cys Arg Glu Pro Thr Ser Ser
        35

<210> 1225
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1225
Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser

```
  1                   5                        10                       15
Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser
            20                  25                  30

Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser
        35                  40                  45

Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu
    50                  55                  60

Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val
65                  70                  75                      80

Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro
                85                  90                  95

Gly Pro Ser Lys Gly Glu Arg Tyr Val Thr Phe Gly Val Val Gly Gly
            100                 105                 110

Ala Gly Ser Asn Leu Ala Val His Ser Ala Arg Pro Leu Ile Gly Asn
        115                 120                 125

Leu Leu Ser Val Gly Pro Thr Ser Thr Leu Thr Pro Thr Arg Gly Leu
    130                 135                 140

Ser Trp Gln Ser Ile Ala Ala Ser Pro Ser Ser Thr Gly His Ala Lys
145                 150                 155                 160

Phe Arg Glu Thr Xaa Lys Asn
                165


<210> 1226
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1226
Gln Leu Arg Xaa Leu Arg Asp Ser Ile Pro Glu Gln Phe Cys Asn Arg
  1               5                   10                  15
```

795

Leu Lys Ala Pro Gly Asn Arg Thr His Ile Ser Gly Cys Leu Gly Gly
            20   25   30

Gly Gln Asp Leu Gly Gly Pro Glu Arg Val Phe Trp Asp Asp Gly Ile
            35   40   45

Phe Cys Ile Leu Thr Val Trp Cys Leu His Arg Xaa Gln His Leu Ser
        50   55   60

Glu Ile Asn Gly Leu Ser Leu
65   70

<210> 1227
<211> 114
<212> PRT
<213> Homo sapiens

<400> 1227
Met Ser Leu Tyr Leu Cys Val Ser Leu Leu Ile Ser Leu Ser Leu Ser
  1   5   10   15

Leu Asn Val Ser Val Ser Val Ser Leu Arg Leu Cys Leu Tyr Phe Ser
            20   25   30

Pro Pro Leu Ser Asp Ala Ile Ser Leu Cys Leu Ser Leu Ser Leu Ser
            35   40   45

Val Ser Pro Phe Leu Ser Pro Ser Leu Ala Leu Cys Phe Leu Cys Leu
        50   55   60

Cys Leu Phe Leu Ala Gln Ser Arg Ala Leu Gly Met Arg Thr Arg Val
65   70   75   80

Ser Gln Gly Trp Leu Gln Leu Asp Thr Ser Gly Ile Pro Ala Ser Pro
                85   90   95

Gly Pro Ser Lys Gly Glu Arg Tyr Val Tyr Phe Arg Gly Gly Arg Gly
            100   105   110

Cys Gly

<210> 1228
<211> 123
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1228
Met Ala Ala Leu Xaa Thr Val Leu Phe Thr Gly Val Arg Arg Leu His
  1               5               10              15

Cys Ser Ala Ala Ala Trp Ala Gly Gly Gln Trp Arg Leu Gln Gln Gly
             20              25              30

Leu Ala Ala Asn Pro Ser Gly Tyr Gly Pro Leu Thr Glu Leu Pro Asp
         35              40              45

Trp Ser Tyr Ala Asp Gly Arg Pro Ala Pro Pro Met Lys Gly Gln Leu
     50              55              60

Arg Arg Lys Ala Glu Arg Glu Thr Phe Ala Arg Arg Val Val Leu Leu
 65              70              75              80

Ser Gln Glu Met Asp Ala Gly Leu Gln Ala Trp Gln Leu Arg Gln Gln
             85              90              95

Lys Leu Gln Glu Glu Gln Arg Lys Gln Glu Asn Ala Leu Lys Pro Lys
         100             105             110

Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln
         115             120


<210> 1229
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1229
Met Ala Ala Leu Val Thr Val Leu Phe Thr Gly Val Arg Arg Leu His
  1               5               10              15

Cys Ser Ala Ala Ala Trp Ala Gly Gly Gln Trp Arg Leu Gln Gln Gly
             20              25              30

Leu Ala Ala Asn Pro Ser Gly Tyr Gly Pro Leu Thr Glu Leu Pro Asp
         35              40              45

Trp Ser Tyr Ala Asp Gly Arg Pro Ala Pro Pro Met Lys Gly Gln Leu
     50              55              60

Arg Arg Lys Ala Glu Arg Glu Thr Phe Ala Arg Arg Val Val Leu Leu
 65              70              75              80
```

Ser Gln Glu Met Asp Ala Gly Leu Gln Ala Trp Gln Leu Arg Gln Gln
                85   90   95

Lys Leu Gln Glu Glu Gln Arg Lys Gln Glu Asn Ala Leu Lys Pro Lys
            100   105   110

Gly Ala Ser Leu Lys Ser Pro Leu Pro Ser Gln
            115   120

<210> 1230
<211> 128
<212> PRT
<213> Homo sapiens

<400> 1230
Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1   5   10   15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln
            20   25   30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe
            35   40   45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp
    50   55   60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp
 65   70   75   80

Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala
                85   90   95

Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys
            100   105   110

Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly Thr Arg Ser Cys
            115   120   125

<210> 1231
<211> 492
<212> PRT
<213> Homo sapiens

798

<400> 1231

```
Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
  1               5                  10                  15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln
             20                  25                  30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe
         35                  40                  45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp
     50                  55                  60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp
 65               70                  75                  80

Val Trp Ala Phe Ala Asn Asn Ser Ala Phe Val Ala Glu Leu Ala Ala
             85                  90                  95

Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys
            100                 105                 110

Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu
            115                 120                 125

Leu Thr Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala
    130                 135                 140

Leu Arg Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly
145                 150                 155                 160

Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro
                165                 170                 175

His Leu Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ala Val
            180                 185                 190

Ala Gly Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp
            195                 200                 205

Phe Glu Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe
    210                 215                 220

Arg Gln Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg
225                 230                 235                 240

Trp Glu Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr
                245                 250                 255

Gln Leu Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met
            260                 265                 270
```

```
Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro
        275             280             285

Val Lys Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr
    290             295             300

Gly Leu Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu
305             310             315             320

His Cys Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr
            325             330             335

Gly Cys Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys
            340             345             350

Thr Glu Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe
        355             360             365

Pro Asp Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp
    370             375             380

Thr Trp Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp
385             390             395             400

Gly Gly Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn
            405             410             415

Leu Asp Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser
            420             425             430

Val Ile Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg
    435             440             445

Ala Ser His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu
    450             455             460

Glu Ala Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln
465             470             475             480

Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
            485             490


<210> 1232
<211> 492
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1232
Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1   5   10   15

Arg Gly Leu Gln Ala Gly Ala Arg Arg Ala Pro Asp Pro Gly Phe Gln
            20   25   30

Glu Arg Phe Phe Gln Gln Arg Leu Asp His Phe Asn Phe Glu Arg Phe
        35   40   45

Gly Asn Lys Thr Phe Pro Gln Arg Phe Leu Val Ser Asp Arg Phe Trp
    50   55   60

Val Arg Gly Glu Gly Pro Ile Phe Phe Tyr Thr Gly Asn Glu Gly Asp
65   70   75   80

Val Trp Ala Phe Ala Asn Asn Ser Xaa Phe Val Ala Glu Leu Ala Ala
                85   90   95

Glu Arg Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys
            100   105   110

Ser Leu Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu
        115   120   125

Leu Thr Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala
    130   135   140

Leu Arg Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly
145   150   155   160

Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro
            165   170   175

His Leu Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ala Val
            180   185   190

Ala Gly Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp
        195   200   205

Phe Glu Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe
    210   215   220

Arg Gln Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg
225   230   235   240

Trp Glu Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr
            245   250   255

Gln Leu Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met

801

```
                260                      265                      270

        Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro
                275                  280                  285

        Val Lys Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr
                290                  295                  300

        Gly Leu Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu
        305                  310                  315                  320

        His Cys Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr
                         325                  330                  335

        Gly Cys Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys
                     340                  345                  350

        Thr Glu Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe
                355                  360                  365

        Pro Asp Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp
            370                  375                  380

        Thr Trp Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp
        385                  390                  395                  400

        Gly Gly Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn
                         405                  410                  415

        Leu Asp Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser
                     420                  425                  430

        Val Ile Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg
                435                  440                  445

        Ala Ser His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu
            450                  455                  460

        Glu Ala Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln
        465                  470                  475                  480

        Gln Pro Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
                         485                  490
```

<210> 1233
<211> 184
<212> PRT
<213> Homo sapiens

<400> 1233

```
Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg
  1               5                  10                  15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly
              20                  25                  30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala
          35                  40                  45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly
      50                  55                  60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg
65                  70                  75                      80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile
              85                  90                  95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala
          100                 105                 110

Phe Ala Met Ala His Arg Ser Leu Tyr Leu Phe Leu Arg Lys Cys Phe
          115                 120                 125

Leu Leu Phe Ala Gly Gln Val Pro Lys Asn Arg Gln Met Phe Leu Leu
    130                 135                 140

Lys Asp Gln Pro Ile Arg Leu Val Arg Thr Arg Arg Leu Trp Pro Arg
145                 150                 155                 160

Ala Ser Pro Leu Gln Ala Cys Gly Leu Arg Trp His Leu Ala Ala Gly
              165                 170                 175

Pro Gln Pro Gly Glu Gly Tyr Tyr
              180


<210> 1234
<211> 130
<212> PRT
<213> Homo sapiens

<400> 1234
Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg
  1               5                  10                  15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly
              20                  25                  30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala
          35                  40                  45
```

```
Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly
     50                  55                  60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg
 65                  70                  75                  80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile
                 85                  90                  95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala
                100                 105                 110

Phe Ala Met Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            115                 120                 125

Lys Lys
    130
```

```
<210> 1235
<211> 133
<212> PRT
<213> Homo sapiens

<400> 1235
Met Phe Leu Glu Leu Ser Gln Ala Leu Leu Leu Leu Gly Leu Pro Arg
 1               5                  10                  15

Ala Pro Thr Leu Phe Pro Ala Leu Pro Glu Gly Pro Thr Ser Leu Gly
            20                  25                  30

Glu Gln Trp Pro Pro Gln Leu Pro Pro His Leu Gly Ala Pro Pro Ala
            35                  40                  45

Ala Glu Gly Ala Val Ala Met Val Gly Cys Gly Glu Gly Arg Gly Gly
     50                  55                  60

Lys Pro Leu Cys Cys Ser Pro Ala Gln Ser Pro Ala Gln Arg Val Arg
 65                  70                  75                  80

Ser Gly Gly Asp Lys Glu Pro Ile Thr Thr Thr Glu Val Ser Leu Ile
                 85                  90                  95

Leu Leu His Ser Arg Cys Phe Asn Leu Thr Lys Leu Lys Lys Thr Ala
                100                 105                 110

Phe Ala Met Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            115                 120                 125

Lys Lys Lys Lys Lys
```

804

<210> 1236
<211> 399
<212> PRT
<213> Homo sapiens

<400> 1236

```
Met Gly Ile Leu Leu Gly Leu Leu Leu Gly His Leu Thr Val Asp
 1               5                   10                  15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
            20                  25                  30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
            35                  40                  45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
        50                  55                  60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65                  70                  75                  80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
                85                  90                  95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
            100                 105                 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
        115                 120                 125

Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
    130                 135                 140

Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145                 150                 155                 160

Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
                165                 170                 175

Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
            180                 185                 190

Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
            195                 200                 205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
    210                 215                 220
```

```
Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
225             230             235                 240

Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
                245                 250                 255

Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
                260                 265                 270

Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
                275                 280                 285

Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
    290             295                 300

Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
305             310                 315                 320

Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
                325                 330                 335

Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
                340                 345                 350

Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
                355                 360                 365

Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val
    370                 375                 380

Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys
385                 390                 395
```

<210> 1237
<211> 399
<212> PRT
<213> Homo sapiens

<400> 1237

```
Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
 1               5                 10                  15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
            20                  25                  30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
            35                  40                  45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
    50                  55                  60
```

```
Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65              70              75                  80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
            85              90                  95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
            100             105             110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
        115             120             125

Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
    130             135             140

Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145             150             155             160

Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
            165             170             175

Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
            180             185             190

Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
            195             200             205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
    210             215             220

Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
225             230             235             240

Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
            245             250             255

Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
            260             265             270

Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
            275             280             285

Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
    290             295             300

Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
305             310             315             320

Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
            325             330             335
```

807

```
Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
            340                 345                 350

Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
            355                 360                 365

Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val
    370                 375                 380  .

Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys      .
385                 390                 395
```

<210> 1238
<211> 209
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1238
```
Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Xaa Ile
  1               5                 10                  15

Leu Xaa Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn
            20                  25                  30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu
```

```
                35                      40                      45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser
        50                      55                      60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu
    65                      70                      75                      80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu
                85                      90                      95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
                100                     105                     110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa
                115                     120                     125

Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His
    130                     135                     140

Asn Pro Xaa Asp Asp Ile Gly Xaa Ser Phe Tyr Pro Glu Leu Gly Ser
145                     150                     155                     160

Tyr Ser Ser Arg Asp Pro Ser Val Ile Glu Thr His Met Arg Gln Met
                165                     170                     175

Arg Ser Ala Ser Ile Gly Asn Tyr Cys Ile Tyr Ile Tyr Met Cys Val
                180                     185                     190

Phe Val Ser Val Tyr Met His Ile Asn Asp Phe Leu Cys Asn Phe Asn
                195                     200                     205

Ser
```

<210> 1239
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1239
```
Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro
 1               5                       10                      15

Thr Cys Gly Phe Ser Ser Tyr Val His Leu Thr Arg Ile Tyr Tyr Phe
                20                      25                      30

Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro
            35                      40                      45
```

809

Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe
    50   55   60

Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys
 65   70   75   80

Phe

<210> 1240
<211> 133
<212> PRT
<213> Homo sapiens

<400> 1240
Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile
 1   5   10   15

Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn
                20   25   30

Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu
            35   40   45

His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser
    50   55   60

Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu
 65   70   75   80

Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu
                85   90   95

Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly
            100   105   110

Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Leu
            115   120   125

Glu His Trp Asp Pro
    130

<210> 1241
<211> 886
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (234)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (275)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (871)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1241
Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu
 1   5   10   15

Leu Ala Ala Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys
             20   25   30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu
         35   40   45

Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala
     50   55   60

Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
 65   70   75   80

Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile
                 85   90   95

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
             100   105   110

Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
         115   120   125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
     130   135   140

811

```
Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr
145             150             155                 160

Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala
            165             170                 175

Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr
            180             185             190

Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val
            195             200             205

Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu
    210             215             220

Ala Val Tyr Lys Asn Val Arg Pro Ala Xaa Val Arg Leu Leu Ile Leu
225             230             235                 240

Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly
            245             250             255

Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr
            260             265             270

Glu Leu Xaa Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser
            275             280             285

Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala
    290             295             300

Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu
305             310             315                 320

Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro
            325             330             335

Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val
            340             345             350

His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile
            355             360             365

Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp
    370             375             380

Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu
385             390             395                 400

Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg
            405             410             415

Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp
```

812

420   425   430

Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val
        435   440   445

Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro
    450   455   460

Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly
465   470   475   480

Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr
                485   490   495

Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser
            500   505   510

Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met
        515   520   525

Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln
        530   535   540

Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser
545   550   555   560

Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys
                565   570   575

Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln
            580   585   590

Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val
            595   600   605

Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr
    610   615   620

Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr
625   630   635   640

Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu
            645   650   655

Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile
            660   665   670

Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp
            675   680   685

Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln
    690   695   700

                                  813

```
Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile
705                 710             715                 720

Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala
                725             730             735

Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu
            740             745             750

Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro
        755             760             765

Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn
    770             775             780

Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp
785             790             795             800

Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu
                805             810             815

Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp
            820             825             830

Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His
        835             840             845

Glu Ala Ser Gly Thr Thr Ala Ser Leu Pro Leu Pro Leu Ala Thr Arg
    850             855             860

Ser Pro Thr Ser Ala Leu Xaa Glu Gln Ser Ser Arg Met Thr Leu Trp
865             870             875             880

Cys Leu Cys Arg Pro Pro
            885
```

```
<210> 1242
<211> 831
<212> PRT
<213> Homo sapiens

<400> 1242
Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu
  1             5             10              15

Leu Ala Ala Gly Pro Ser Ala Ala Ala Ala Lys Leu Asn Ile Pro Lys
            20              25              30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu
```

```
                     35                        40                        45

Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala
        50                  55                  60

Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
 65                  70                  75                      80

Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile
                85                  90                  95

Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
            100                 105                 110

Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
        115                 120                 125

Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
    130                 135                 140

Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr
145                 150                 155                 160

Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala
            165                 170                 175

Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr
            180                 185                 190

Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val
            195                 200                 205

Ser Gly Met Lys Thr Gly Ser Ser Lys Leu Lys Ala Arg Ile Gln Glu
    210                 215                 220

Ala Val Tyr Lys Asn Val Arg Pro Ala Glu Val Arg Leu Leu Ile Leu
225                 230                 235                 240

Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly
            245                 250                 255

Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr
            260                 265                 270

Glu Leu Ser Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser
            275                 280                 285

Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala
    290                 295                 300

Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu
305                 310                 315                 320
```

815

Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro
          325   330   335

Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val
          340   345   350

His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile
          355   360   365

Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp
    370   375   380

Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu
385   390   395   400

Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg
          405   410   415

Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp
          420   425   430

Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val
          435   440   445

Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro
    450   455   460

Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly
465   470   475   480

Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser His Leu Val Ala Thr
          485   490   495

Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser
          500   505   510

Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met
          515   520   525

Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln
    530   535   540

Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser
545   550   555   560

Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys
          565   570   575

Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln
          580   585   590

```
Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val
        595                 600                 605

Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr
        610                 615                 620

Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr
625                 630                 635                     640

Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu
            645                 650                 655

Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile
            660                 665                 670

Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp
        675                 680                 685

Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln
    690                 695                 700

Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile
705                 710                 715                     720

Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala
                725                 730                 735

Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu
            740                 745                 750

Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro
        755                 760                 765

Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn
    770                 775                 780

Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp
785                 790                 795                     800

Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu
                805                 810                 815

Ala Ala Ser Ser Leu Ser Cys His Ala Ala Gly Val Pro Gly Arg
            820                 825                 830


<210> 1243
<211> 89
<212> PRT
<213> Homo sapiens
```

817

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1243
Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala
 1   5   10   15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Gly Gly Gln Leu Leu His
                20   25   30

Asn Gly Thr Cys Val Pro Xaa Thr Ala Cys Pro Cys Thr Gln His Ser
            35   40   45

Leu Pro Trp Gly Leu Thr Leu Thr Leu Glu Glu Gln Ala Gln Glu Leu
        50   55   60

Xaa Pro Gly Thr Val Leu Thr Arg Asn Cys Thr Pro Leu Cys Leu Pro
 65   70   75   80

Leu Trp Ser Leu Gln Leu Leu Pro Arg
                85

<210> 1244
<211> 79
<212> PRT
<213> Homo sapiens

<400> 1244
Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn
 1   5   10   15

Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly
            20   25   30

Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser
            35   40   45

Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr
        50   55   60

His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg
 65   70   75

818

<210> 1245
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1245
Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala
 1   5   10   15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala
            20   25   30

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe
        35   40   45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala
    50   55   60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro
 65   70   75   80

Arg Trp Ser Leu Gln Leu Leu Pro Arg
                85

<210> 1246
<211> 334
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

819

<400> 1246

```
Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly
 1               5                  10                  15

Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu
                20                  25                  30

Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu
            35                  40                  45

Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser
        50                  55                  60

Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala
65                  70                  75                  80

Thr Pro Leu Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala
                85                  90                  95

Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe
            100                 105                 110

Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Xaa Ile Ser Ser Val
            115                 120                 125

Xaa Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg
    130                 135                 140

Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu
145                 150                 155                 160

Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu
                165                 170                 175

Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val
            180                 185                 190

Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe
            195                 200                 205

Leu Val Tyr Arg Arg Xaa Pro Pro Pro Arg Ser Leu Ser Pro Ser Xaa
    210                 215                 220

Pro Ala Asp Gln Asn Gln Ala Glu Arg Arg Arg Thr Gly Thr Thr Gly
225                 230                 235                 240

Cys His Thr Arg Gln Glu Glu Val Trp Thr Val Met Val Arg Arg Pro
                245                 250                 255

Cys Ile Ser Leu Arg Val Ala Ser Gly Ser Ser Val Asp Arg Thr Val
            260                 265                 270
```

Pro Pro Gly Thr His Leu Gln Val Asp Pro Glu Ala Ser Arg Pro Gly
     275   280   285

Leu Glu Arg Arg Pro Gln Gly Leu Ser Gly Asp Ser Glu Ala Ala Pro
     290   295   300

Pro Thr Thr Tyr Leu Ile Leu Pro Thr Gln Asp Cys Pro Val Asn Ser
305   310   315   320

Arg Gln Leu Asn Lys Gln Ala Gly Tyr Ser Gly Ser His Leu
            325   330

<210> 1247
<211> 226
<212> PRT
<213> Homo sapiens

<400> 1247
Met Asp Gln Ala Leu Ser Leu Trp Phe Leu Leu Gly Trp Ile Gly Gly
  1   5   10   15

Asp Ser Cys Asn Leu Ile Gly Ser Phe Leu Ala Asp Gln Leu Pro Leu
         20   25   30

Gln Thr Tyr Thr Ala Val Tyr Tyr Val Leu Ala Asp Leu Val Met Leu
        35   40   45

Thr Leu Tyr Phe Tyr Tyr Lys Phe Arg Thr Arg Pro Ser Leu Leu Ser
    50   55   60

Ala Pro Ile Asn Ser Val Leu Leu Phe Leu Met Gly Met Ala Cys Ala
  65   70   75   80

Thr Pro Leu Leu Ser Ala Ala Gly Pro Val Ala Ala Pro Arg Glu Ala
            85   90   95

Phe Arg Gly Arg Ala Leu Leu Ser Val Glu Ser Gly Ser Lys Pro Phe
        100   105   110

Thr Arg Gln Glu Val Ile Gly Phe Val Ile Gly Ser Ile Ser Ser Val
        115   120   125

Leu Tyr Leu Leu Ser Arg Leu Pro Gln Ile Arg Thr Asn Phe Leu Arg
    130   135   140

Lys Ser Thr Gln Gly Ile Ser Tyr Ser Leu Phe Ala Leu Val Met Leu
145   150   155   160

Gly Asn Thr Leu Tyr Gly Leu Ser Val Leu Leu Lys Asn Pro Glu Glu

Gly Gln Ser Glu Gly Ser Tyr Leu Leu His His Leu Pro Trp Leu Val
            180   185   190

Gly Ser Leu Gly Val Leu Leu Leu Asp Thr Ile Ile Ser Ile Gln Phe
            195   200   205

Leu Val Tyr Arg Arg Ser Thr Ala Ala Ser Glu Leu Glu Pro Leu Leu
    210   215   220

Pro Ser
225

<210> 1248
<211> 184
<212> PRT
<213> Homo sapiens

<400> 1248
Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
  1   5   10   15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
            20   25   30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
        35   40   45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
    50   55   60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
65   70   75   80

Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
            85   90   95

Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
            100   105   110

Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys
        115   120   125

Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
    130   135   140

His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
145   150   155   160

Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
                165   170   175

Ser Ile Cys Ala Asp Ile His Val
                180

<210> 1249
<211> 184
<212> PRT
<213> Homo sapiens

<400> 1249
Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
  1   5   10   15

Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
                20   25   30

Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
            35   40   45

Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
    50   55   60

Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
 65   70   75   80

Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
                85   90   95

Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
            100   105   110

Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys
            115   120   125

Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
    130   135   140

His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
145   150   155   160

Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
                165   170   175

Ser Ile Cys Ala Asp Ile His Val
                180

<210> 1250
<211> 173
<212> PRT
<213> Homo sapiens

<400> 1250
Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val
 1   5   10   15

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met
                20   25   30

Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg
            35   40   45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser
        50   55   60

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala
65   70   75   80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala
            85   90   95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly
            100   105   110

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala
        115   120   125

Ala Thr Arg Ser Ala Lys Arg Trp Ser Trp Ser Ser Ala Ser Gly Pro
    130   135   140

Leu Gln Leu Pro Ala Gly Arg Leu Leu Gln Asp Gln Gln Val Gly Glu
145   150   155   160

Ser Cys Cys Cys Ser Thr His Leu Leu Arg Gly Gln Ser
            165   170

<210> 1251
<211> 359
<212> PRT
<213> Homo sapiens

<400> 1251
Met Ala Val Arg Ala Leu Lys Leu Leu Thr Thr Leu Leu Ala Val Val
 1   5   10   15

Ala Ala Ala Ser Gln Ala Glu Val Glu Ser Glu Ala Gly Trp Gly Met
                20   25   30

```
Val Thr Pro Asp Leu Leu Phe Ala Glu Gly Thr Ala Ala Tyr Ala Arg
        35                  40                  45

Gly Asp Trp Pro Gly Val Val Leu Ser Met Glu Arg Ala Leu Arg Ser
        50              55                  60

Arg Ala Ala Leu Arg Ala Leu Arg Leu Arg Cys Arg Thr Gln Cys Ala
65                  70                  75                  80

Ala Asp Phe Pro Trp Glu Leu Asp Pro Asp Trp Ser Pro Ser Pro Ala
            85                  90                  95

Gln Ala Ser Gly Ala Ala Ala Leu Arg Asp Leu Ser Phe Phe Gly Gly
            100                 105                 110

Leu Leu Arg Arg Ala Ala Cys Leu Arg Arg Cys Leu Gly Pro Pro Ala
        115                 120                 125

Ala His Ser Leu Ser Glu Glu Met Glu Leu Glu Phe Arg Lys Arg Ser
        130                 135                 140

Pro Tyr Asn Tyr Leu Gln Val Ala Tyr Phe Lys Ile Asn Lys Leu Glu
145                 150                 155                 160

Lys Ala Val Ala Ala Ala His Thr Phe Phe Val Gly Asn Pro Glu His
                165                 170                 175

Met Glu Met Gln Gln Asn Leu Asp Tyr Tyr Gln Thr Met Ser Gly Val
            180                 185                 190

Lys Glu Ala Asp Phe Lys Asp Leu Glu Thr Gln Pro His Met Gln Glu
        195                 200                 205

Phe Arg Leu Gly Val Arg Leu Tyr Ser Glu Glu Gln Pro Gln Glu Ala
    210                 215                 220

Val Pro His Leu Glu Ala Ala Leu Gln Glu Tyr Phe Val Ala Tyr Glu
225                 230                 235                 240

Glu Cys Arg Ala Leu Cys Glu Gly Pro Tyr Asp Tyr Asp Gly Tyr Asn
            245                 250                 255

Tyr Leu Glu Tyr Asn Ala Asp Leu Phe Gln Ala Ile Thr Asp His Tyr
        260                 265                 270

Ile Gln Val Leu Asn Cys Lys Gln Asn Cys Val Thr Glu Leu Ala Ser
        275                 280                 285

His Pro Ser Arg Glu Lys Pro Phe Glu Asp Phe Leu Pro Ser His Tyr
    290                 295                 300
```

Asn Tyr Leu Gln Phe Ala Tyr Tyr Asn Ile Gly Asn Tyr Thr Gln Ala
305   310   315   320

Val Glu Cys Ala Lys Thr Tyr Leu Leu Phe Phe Pro Asn Asp Glu Val
                325   330   335

Met Asn Gln Asn Leu Ala Leu Leu Cys Ser Tyr Ala Trp Arg Arg Thr
              340   345   350

His Gln Ile His Arg Pro Pro
          355

<210> 1252
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1252
Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Val Asn Ser
  1   5   10   15

Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro
              20   25   30

Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu
          35   40   45

Met Tyr Gln Lys Asn Arg Arg Gln Asp Gly Ser Lys Val Phe Phe Lys
      50   55   60

Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys
 65   70   75

<210> 1253
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1253
Met Thr Ile Phe Thr Pro Phe Leu Val Leu Leu Leu Val Asn Ser
  1   5   10   15

Pro Arg Phe Ser Thr Ile Thr Leu Met Arg Ser Gly Phe His Asn Pro
              20   25   30

Ser Val Cys Leu Ser Phe Thr Leu Lys Pro Gln Cys Tyr Leu Val Leu
          35   40   45

Met Tyr Gln Lys Asn Arg Arg Gln Asp Gly Ser Lys Val Phe Phe Lys
    50   55   60

Thr Ala Arg Leu Lys Phe Tyr Leu Asn Ile Thr Ala Lys
 65   70   75

<210> 1254
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1254
Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
 1   5   10   15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
            20   25   30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
            35   40   45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
    50   55   60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
 65   70   75   80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
                85   90   95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
                100   105   110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
            115   120   125

Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu
    130   135   140

<210> 1255
<211> 86
<212> PRT
<213> Homo sapiens

827

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1255
Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
 1   5   10   15

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
            20   25   30

Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser
            35   40   45

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
        50   55   60

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
 65   70   75   80

Ser Leu Thr Gly Tyr Val
                85

<210> 1256
<211> 230
<212> PRT
<213> Homo sapiens

<400> 1256
Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
 1   5   10   15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
            20   25   30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
            35   40   45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
        50   55   60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
 65   70   75   80

828

```
Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
                85                      90                      95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
            100                 105                 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
        115                 120                 125

Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu
    130                 135                 140

Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
145                 150                 155                     160

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
                165                 170                 175

Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser
            180                 185                 190

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
        195                 200                 205

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
    210                 215                 220

Ser Leu Thr Gly Tyr Val
225                 230



<210> 1257
<211> 331
<212> PRT
<213> Homo sapiens

<400> 1257
Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser Phe
1               5                   10                  15

Leu Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn Ala Cys
            20                  25                  30

Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe Ser Phe Glu
        35                  40                  45

Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys Pro Arg Asp Arg
    50                  55                  60

Ile Ser Ala Ile Ala His Arg Gly Gly Ser His Asp Ala Pro Glu Asn
```

Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys Asn Gly Ala Thr Gly Val
             85   90   95

Glu Leu Asp Ile Glu Phe Thr Ser Asp Gly Ile Pro Val Leu Met His
           100   105   110

Asp Asn Thr Val Asp Arg Thr Thr Asp Gly Thr Gly Arg Leu Cys Asp
      115   120   125

Leu Thr Phe Glu Gln Ile Arg Lys Leu Asn Pro Ala Ala Asn His Arg
      130   135   140

Leu Arg Asn Asp Phe Pro Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala
145   150   155   160

Val Ala Glu Cys Leu Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys
           165   170   175

Gly His Ala His Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu
           180   185   190

Phe Pro Gln Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu
           195   200   205

Val Ile Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu
      210   215   220

Thr His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg
225   230   235   240

Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile Leu
           245   250   255

Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly Ile Ser
           260   265   270

Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr Leu Lys Lys
           275   280   285

Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr Val Asn Thr Phe
      290   295   300

Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly Ser Ser Tyr Ile Thr
305   310   315   320

Asp Ser Met Val Glu Asp Cys Glu Pro His Phe
           325   330

<210> 1258
<211> 27
<212> PRT
<213> Homo sapiens

<400> 1258
Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
1   5   10   15

Pro Ile Gly Val His Leu His Ser Val Arg Asp
                20   25

<210> 1259
<211> 485
<212> PRT
<213> Homo sapiens

<400> 1259
Ala Arg Gly Arg Leu Leu Pro Trp Trp Leu Ala Ala Gly Cys Ser Met
1   5   10   15

Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu Leu
                20   25   30

Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser Gln
                35   40   45

Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro Asn
        50   55   60

Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met Leu
65   70   75   80

Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro Ser
                85   90   95

Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe Val
                100   105   110

Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg Ser
                115   120   125

Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys His
        130   135   140

Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Phe Pro Phe Val
145   150   155   160

Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala
                165   170   175

831

```
Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr
        180             185             190

Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser
        195             200             205

Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg
    210             215             220

Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser
225             230             235                 240

Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu
            245             250             255

Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg
        260             265             270

Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg
        275             280             285

Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu
        290             295             300

Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys
305             310             315             320

Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys
            325             330             335

His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser
            340             345             350

Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp
        355             360             365

Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu
    370             375             380

Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys
385             390             395             400

Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu Asp
            405             410             415

Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe Ser
        420             425             430

Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly Lys
        435             440             445
```

832

```
Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro Asp
    450                 455             460

Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu Glu
465                 470             475                 480

Val Ile Leu Arg Asp
                485


<210> 1260
<211> 470
<212> PRT
<213> Homo sapiens

<400> 1260
Met Ser Arg Leu Gly Ala Leu Gly Gly Ala Arg Ala Gly Leu Gly Leu
  1             5               10              15

Leu Leu Gly Thr Ala Ala Gly Leu Gly Phe Leu Cys Leu Leu Tyr Ser
            20              25              30

Gln Arg Trp Lys Arg Thr Gln Arg His Gly Arg Ser Gln Ser Leu Pro
        35              40              45

Asn Ser Leu Asp Tyr Thr Gln Thr Ser Asp Pro Gly Arg His Val Met
    50              55              60

Leu Leu Arg Ala Val Pro Gly Gly Ala Gly Asp Ala Ser Val Leu Pro
 65             70              75                  80

Ser Leu Pro Arg Glu Gly Gln Glu Lys Val Leu Asp Arg Leu Asp Phe
            85              90                  95

Val Leu Thr Ser Leu Val Ala Leu Arg Arg Glu Val Glu Glu Leu Arg
            100             105             110

Ser Ser Leu Arg Gly Leu Ala Gly Glu Ile Val Gly Glu Val Arg Cys
            115             120             125

His Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Phe Pro Phe
    130             135             140

Val Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr
145             150             155             160

Ala Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr
            165             170             175

Thr Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu
            180             185             190


833
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```
Ser Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly
        195             200             205

Arg Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser
        210             215             220

Ser Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro
225             230             235             240

Leu Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys
                245             250             255

Arg Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser
            260             265             270

Arg Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys
        275             280             285

Glu Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly
    290             295             300

Lys Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp
305             310             315             320

Cys His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu
            325             330             335

Ser Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val
            340             345             350

Asp Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu
        355             360             365

Leu Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys
    370             375             380

Lys Thr Ala Thr Ala Leu Leu Glu Ser Pro Leu Ser Ala Thr Val Glu
385             390             395             400

Asp Ala Leu Gln Ser Phe Leu Lys Ala Glu Glu Leu Gln Pro Gly Phe
            405             410             415

Ser Lys Ala Gly Arg Val Tyr Ile Ser Lys Cys Tyr Arg Glu Leu Gly
        420             425             430

Lys Asn Ser Glu Ala Arg Trp Trp Met Lys Leu Ala Leu Glu Leu Pro
        435             440             445

Asp Val Thr Lys Glu Asp Leu Ala Ile Gln Lys Asp Leu Glu Glu Leu
    450             455             460
```

834

Glu Val Ile Leu Arg Asp
465   470

<210> 1261
<211> 37
<212> PRT
<213> Homo sapiens

<400> 1261
Met Pro Asp Lys Arg Glu Ala Thr Ala Ala Ala Val Ala Leu Phe Ile
 1   5   10   15

Val Pro Leu Gly Val Trp Met Arg Gly Ser Arg Gly Tyr Ser Ala Ala
            20   25   30

His Glu Gly Ser Leu
        35

<210> 1262
<211> 37
<212> PRT
<213> Homo sapiens

<400> 1262
Met Pro Asp Lys Arg Glu Ala Thr Ala Ala Ala Val Ala Leu Phe Ile
 1   5   10   .   15

Val Pro Leu Gly Val Trp Met Arg Gly Ser Arg Gly Tyr Ser Ala Ala
            20   25   30

His Glu Gly Ser Leu
        35

<210> 1263
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1263
Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Val Gly
 1   5   10   15

Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly
            20   25   30

Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys Pro Cys Pro

```
              35                    40                          45

Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser
        50                  55                  60

Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala
 65                  70                  75                      80

Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile
                85                  90                  95

Met His Leu Leu Leu Pro Pro Gly Leu
                100             105




<210> 1264
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1264
Met Leu Val Cys Met Leu Gly Cys Leu Ala Asn Leu Val Val Val Gly
 1               5                  10                  15

Phe Leu Lys Glu Lys Thr Phe Pro Leu Ala Met Ala Arg Thr Arg Gly
                20                  25                  30

Ser Ser Leu Ser Leu Leu Pro Thr Pro Pro Phe Pro Cys·Pro Cys Pro
            35                  40                  45

Asp Ala Ser Arg Leu Arg Glu Lys His Cys Ile Gln Thr Glu Gly Ser
        50                  55                  60

Ala Ala Ser Phe Gln Lys Val Ile Gly Lys Ala Leu Glu Arg Arg Ala
 65                  70                  75                      80

Val Leu Gln Leu Ala Leu Phe Leu His His Pro Pro Ser Leu Cys Ile
                85                  90                  95

Met His Leu Leu Leu Pro Pro Gly Leu
                100             105




<210> 1265
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1265
Met Thr Leu Cys Leu Val Thr Phe Leu Thr Ser Leu Pro Thr Ser Val
 1   5   10   15

Pro Ala Cys Thr Ser Cys Trp Pro Gly Phe Met Arg Ser Ser Lys Asn
            20   25   30

Ala Tyr Asp Thr His His Trp Gly Gly Gln Arg Ser Met Asn Leu Glu
            35   40   45

Ser Leu Thr Cys Gly Gln Leu Ala Ile Arg Trp Thr Arg Gly Trp Met
    50   55   60

Thr Arg Pro Arg Gln Val Trp Ala Met Pro Gly Gln Thr Val Asp Val
 65   70   75   80

Tyr Leu Gly Arg Met Leu Gln Gly Val Val Leu Arg Gly Gln Thr Leu
            85   90   95

Arg Gly Arg Ala Xaa
            100

<210> 1266
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1266
Lys Ala Val Thr Gly Trp Ala His Trp Leu Thr Pro Ile Ile Pro Ala
 1   5   10   15

Leu Trp Glu Ala Lys Ala Gly Arg Ser Leu Glu Val Arg Ile Ser Arg
            20   25   30

Pro Ala Trp Ser Thr Trp Gln Asn Leu Val Ser Thr Lys Asn Thr Lys
            35   40   45

Ile Arg
    50

<210> 1267
<211> 120
<212> PRT
<213> Homo sapiens

837

<400> 1267

```
Glu Val Leu Phe Ser Asn Asp Ser Val Leu Gly His Phe Pro His Gln
  1               5                  10                  15

Ser Pro Asn Glu Arg Ala Arg Leu Tyr Phe Leu Leu Ala Trp Phe His
             20                  25                  30

Ala Ile Ile Gln Glu Arg Leu Arg Tyr Ala Pro Leu Gly Trp Ser Lys
             35                  40                  45

Lys Tyr Glu Phe Gly Glu Ser Asp Leu Arg Ser Ala Cys Asp Thr Val
         50              55                  60

Asp Thr Trp Leu Asp Asp Thr Ala Lys Ala Ser Val Gly His Ala Arg
 65              70                  75                      80

Thr Asp Ser Gly Arg Val Ser Gly Lys Asp Ala Ala Gly Arg Gly Ala
                 85                  90                  95

Glu Arg Pro Asp Ser Ala Trp Lys Ser Glu Leu Thr Pro Arg Asp Arg
             100                 105                 110

Gln Ser Leu Ala Gly His Gly Glu
         115                 120
```

<210> 1268
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1268

```
Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
  1               5                  10                  15

Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu
             20                  25                  30

Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
             35                  40                  45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
         50              55                  60

Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln
 65              70                  75                      80

His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala
                 85                  90                  95

Ala Ser Pro Gln Ala Thr Asn
```

838

<210> 1269
<211> 261
<212> PRT
<213> Homo sapiens

<400> 1269

```
Met Met Cys Val Val Leu Thr Thr Leu Pro Cys Leu Thr Phe Ser Ile
 1               5                  10                  15

Ala Val Thr Glu Val Gln Lys Ser Ile Asn Gly Ser Ala Asp Val Leu
                20                  25                  30

Pro Asp Met Leu Pro Asp Leu Pro Val Ser Leu Val Leu Leu Ser Leu
            35                  40                  45

Ile Met Val Asp Ile Ile Glu Lys Leu Arg Ile Tyr Pro Leu Arg Gly
        50                  55                  60

Ser Gln Lys Ser Ser Glu Asn Gly His Ile His Ser Thr Ser Leu Gln
65                  70                  75                  80

His Ile Lys Thr Val Thr Glu Gln Val Arg Gln Ser Pro Glu Asn Ala
                85                  90                  95

Ala Ser Pro Gln Ala Thr Asn Ser Thr Gln Val Ser Gln Pro Ser Gly
            100                 105                 110

Ala Met Thr Arg Ser Gln Glu Ser Val Phe Met Gly Pro Gln Glu Pro
            115                 120                 125

Ser Cys Asp Ser Gly Ile Leu Arg Met Met Ser Arg Arg Asp Val Arg
    130                 135                 140

Ala Glu Leu Phe Leu Trp Ser Phe Leu Leu Trp Ser Asp Thr Ile Glu
145                 150                 155                 160

Met Val Arg Val Ala Gly His Pro Asn Val Tyr Lys Ser Ser Trp Leu
                165                 170                 175

Tyr Pro Val Tyr Ile Phe Ser Phe Ile Ser Leu Leu Arg Ile Thr Phe
            180                 185                 190

Thr Pro Gln Asn Pro Leu Leu Asn Ser Leu Ser Val Leu Leu Gln Asp
            195                 200                 205

Leu Pro Phe Val Phe Val Arg Leu Gly Leu Ile Ile Ala Leu Gly Thr
    210                 215                 220
```

```
Ile Thr Pro Val Leu Gly Leu Cys Lys Asn Ile Leu Val Thr Leu Ser
225                 230             235                 240

Tyr Ile Tyr Phe Asn Tyr Leu Thr Arg Ile Arg Ile Phe Ser Ala Phe
            245             250             255

Glu Met Ser Pro Phe
            260
```

<210> 1270
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1270
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Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro
 1           5                 10                  15

Arg Pro Pro Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro
            20                  25                  30

Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly
        35                  40                  45

Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn
    50                  55                  60

Tyr Thr Ala Leu Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly
65                  70                  75                  80

Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro
            85                  90                  95

Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys
            100                 105                 110

Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn
            115                 120                 125

Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys
```

Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Xaa Glu Asn
145   150   155   160

Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly
                165   170   175

Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val
            180   185   190

Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn
        195   200   205

Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu
    210   215   220

Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr
225   230   235   240

Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Asp Lys Ile Tyr
            245   250   255

Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Phe Glu Asn Thr
            260   265   270

Ile Val Ser Gly Xaa
        275

<210> 1271
<211> 832
<212> PRT
<213> Homo sapiens

<400> 1271
Met Gly Leu Arg Ser Trp Leu Ala Ala Pro Trp Gly Ala Leu Pro Pro
 1   5   10   15

Arg Pro Pro Leu Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro
            20   25   30

Pro Pro Pro Thr Trp Ala Leu Ser Pro Arg Ile Ser Leu Pro Leu Gly
        35   40   45

Ser Glu Glu Arg Pro Phe Leu Arg Phe Glu Ala Glu His Ile Ser Asn
    50   55   60

Tyr Thr Ala Leu Leu Leu Ser Arg Asp Gly Arg Thr Leu Tyr Val Gly
65   70   75   80

```
Ala Arg Glu Ala Leu Phe Ala Leu Ser Ser Asn Leu Ser Phe Leu Pro
             85                   90                   95

Gly Gly Glu Tyr Gln Glu Leu Leu Trp Gly Ala Asp Ala Glu Lys Lys
            100              105              110

Gln Gln Cys Ser Phe Lys Gly Lys Asp Pro Gln Arg Asp Cys Gln Asn
        115              120                  125

Tyr Ile Lys Ile Leu Leu Pro Leu Ser Gly Ser His Leu Phe Thr Cys
    130              135                  140

Gly Thr Ala Ala Phe Ser Pro Met Cys Thr Tyr Ile Asn Met Glu Asn
145                  150              155                      160

Phe Thr Leu Ala Arg Asp Glu Lys Gly Asn Val Leu Leu Glu Asp Gly
            165                  170                  175

Lys Gly Arg Cys Pro Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val
            180              185                  190

Val Asp Gly Glu Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn
        195              200                  205

Asp Pro Ala Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu
    210              215                  220

Ser Ser Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr
225              230                  235                      240

Ile Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Asp Lys Ile Tyr
            245                  250                  255

Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Phe Glu Asn Thr
            260                  265                  270

Ile Val Ser Arg Ile Ala Arg Ile Cys Lys Gly Asp Glu Gly Gly Glu
        275              280                  285

Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu Lys Ala Gln Leu Leu
    290              295                  300

Cys Ser Arg Pro Asp Asp Gly Phe Pro Phe Asn Val Leu Gln Asp Val
305              310                  315                      320

Phe Thr Leu Ser Pro Ser Pro Gln Asp Trp Arg Asp Thr Leu Phe Tyr
            325                  330                  335

Gly Val Phe Thr Ser Gln Trp His Arg Gly Thr Thr Glu Gly Ser Ala
            340                  345                  350

Val Cys Val Phe Thr Met Lys Asp Val Gln Arg Val Phe Ser Gly Leu

                                 842
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            355                    360                      365

Tyr Lys Glu Val Asn Arg Glu Thr Gln Gln Trp Tyr Thr Val Thr His
    370                 375                 380

Pro Val Pro Thr Pro Arg Pro Gly Ala Cys Ile Thr Asn Ser Ala Arg
385                     390                 395                 400

Glu Arg Lys Ile Asn Ser Ser Leu Gln Leu Pro Asp Arg Val Leu Asn
                405                 410                 415

Phe Leu Lys Asp His Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met
            420                 425                 430

Leu Leu Leu Gln Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg
        435                 440                 445

Val Pro Gly Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly
    450                 455                 460

Asp Gly Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile
465                 470                 475                 480

Ile Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu
                485                 490                 495

Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser Gly
            500                 505                 510

Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser Cys Gly
        515                 520                 525

Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Gly Ser Ser
    530                 535                 540

Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala Thr Arg Pro Trp
545                 550                 555                 560

Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp Leu Cys Ser Ala Ser
                565                 570                 575

Ser Val Val Ser Pro Ser Phe Val Pro Thr Gly Glu Lys Pro Cys Glu
                580                 585                 590

Gln Val Gln Phe Gln Pro Asn Thr Val Asn Thr Leu Ala Cys Pro Leu
        595                 600                 605

Leu Ser Asn Leu Ala Thr Arg Leu Trp Leu Arg Asn Gly Ala Pro Val
    610                 615                 620

Asn Ala Ser Ala Ser Cys His Val Leu Pro Thr Gly Asp Leu Leu Leu
625                 630                 635                 640

                                843
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```
Val Gly Thr Gln Gln Leu Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu
              645                   650               655

Gly Phe Gln Gln Leu Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp
              660               665               670

Gly Val Ala Asp Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile
              675               680               685

Ser Thr Ser Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly
              690               695               700

Ala Asp Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe
705                   710               715                   720

Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg
              725               730               735

Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val His
              740               745               750

Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro Leu Asn
              755               760               765

Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly Tyr Gln Ser
              770               775               780

Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe Thr Glu Ser Glu Lys
785               790               795                   800

Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu Val Ser Pro Val Cys
              805               810               815

Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile Arg Asp Ser Val Val
              820               825               830
```

<210> 1272
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (184)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1272
Met Gly Lys Trp Lys Glu Ser Leu Gln Asn Ala Xaa His Leu Pro Pro
 1   5   10   15

Ile Leu Leu Leu Arg Xaa Ile His Leu Phe Cys Ala Val Leu Ala Gly
            20   25   30

Gly Lys Glu Asn Gly Gln Met Ala Val Ser Asp Gly Ser Val Lys Gly
         35   40   45

Leu Leu Ser Val Val Arg Xaa Trp Ser Arg Gly Pro Ala Pro Asp Pro
      50   55   60

Cys Leu Val Pro Leu Ala Leu Glu Ala Leu Val Gly Ala Val His Val
 65   70   75   80

Leu His Ala Ser Arg Ala Pro Pro Arg Gly Pro Glu Leu Arg Ala Leu
               85   90   95

Leu Glu Ser Tyr Phe His Val Leu Asn Ala Asp Trp Pro Ala Gly Leu
            100   105   110

Ser Ser Gly Pro Glu Glu Ala Leu Val Thr Leu Arg Val Ser Met Leu
         115   120   125

Asp Ala Ile Pro Met Met Leu His Val Lys Thr Gly Gln Cys Leu Gln
      130   135   140

845

Pro Pro Xaa Ser Ala Thr Ile Ala Leu Asn Thr Xaa Leu Gly Ser Phe
145   150   155   160

Lys Asn Lys Gln Gly Ser Trp Thr Lys Thr Gln Thr His Cys Ser Pro
                165   170   175

Cys Ser Gln Ser Ala Asp Leu Xaa His Glu Val Thr Pro Leu Gly Pro
                180   185   190

Arg Arg Trp Leu
            195

<210> 1273
<211> 347
<212> PRT
<213> Homo sapiens

<400> 1273
Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln
  1   5   10   15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala Ala Ser
                20   25   30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser
            35   40   45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly
        50   55   60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu
65   70   75   80

Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu
                85   90   95

Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu
                100   105   110

Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu
            115   120   125

Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr
        130   135   140

Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu
145   150   155   160

His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu

846

```
                    165                     170                     175
Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr
            180                 185                 190

Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu
            195                 200                 205

Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu
            210                 215                 220

Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
225                 230                 235                 240

Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe
                245                 250                 255

Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu
            260                 265                 270

Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp
            275                 280                 285

Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp
    290                 295                 300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys
305                 310                 315                 320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys
                325                 330                 335

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln
            340                 345


<210> 1274
<211> 347
<212> PRT
<213> Homo sapiens

<400> 1274
Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln
 1               5                   10                  15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala Ala Ser
            20                  25                  30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser
            35                  40                  45
```

847

```
Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly
    50              55                  60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu
65              70                  75                      80

Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu
                85                  90                      95

Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu
            100                 105                 110

Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu
        115                 120                 125

Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr
    130                 135                 140

Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu
145             150                 155                     160

His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu
            165                 170                 175

Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr
            180                 185                 190

Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu
    195                 200                 205

Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu
    210                 215                 220

Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
225             230                 235                     240

Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe
            245                 250                 255

Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu
            260                 265                 270

Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp
        275                 280                 285

Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp
    290                 295                 300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys
305                 310                 315                 320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys
```

848

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln
        340   345

<210> 1275
<211> 347
<212> PRT
<213> Homo sapiens

<400> 1275
Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln
 1   5   10   15

Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala Ala Ser
            20   25   30

Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val Phe Arg Ser
        35   40   45

Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly
    50   55   60

Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu
65   70   75   80

Thr His Leu Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu
                85   90   95

Leu His Leu Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu
            100   105   110

Arg Pro Val Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu
        115   120   125

Thr Gly Leu Pro Ser Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr
        130   135   140

Leu Val Leu Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu
145   150   155   160

His Gly Leu Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu
            165   170   175

Arg Lys Leu Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr
        180   185   190

Leu Asp Leu Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu
        195   200   205

849

Arg Gly Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu
    210   215   220

Gln Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
225   230   235   240

Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe
            245   250   255

Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu
            260   265   270

Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp
            275   280   285

Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp
    290   295   300

Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys
305   310   315   320

Met Phe Ser Gln Asn Asp Thr Arg Cys Ala Gly Pro Glu Ala Val Lys
            325   330   335

Gly Gln Thr Leu Leu Ala Val Ala Lys Ser Gln
            340   345

<210> 1276
<211> 286
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1276
Met Leu Met Leu Met Leu Leu Met Met Phe Ala Val His Cys Thr Trp
  1   5   10   15

Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr
            20   25   30

Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr
        35   40   45

Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp
    50   55   60

850

```
Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu
 65              70              75                          80

Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys
            85              90                          95

Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu
            100             105             110

Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser
        115             120             125

Gly Asp Asp Ile Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly
        130             135             140

Glu His Pro Lys Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly
145             150             155                     160

Glu Phe Arg Val Asp Lys Ala Gly Ser Pro Thr Leu Xaa Asn Cys Leu
            165             170             175

Met Tyr Lys Met Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe
            180             185             190

Arg Thr Pro Pro Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn
        195             200             205

Lys Asp Ile Lys Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His
    210             215             220

Trp Leu Val Arg Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr
225             230             235                     240

Leu Asp His Lys Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr
            245             250             255

Leu Ser Lys Lys Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys
            260             265             270

Leu Val Phe Lys Lys Gly Lys Lys Ile Ser Lys Lys Thr Val
            275             280             285


<210> 1277
<211> 286
<212> PRT
<213> Homo sapiens

<400> 1277
Met Leu Met Leu Met Leu Leu Met Met Phe Ala Val His Cys Thr Trp
  1           5               10                      15
```

851

```
Val Thr Ser Asn Ala Tyr Ser Ser Pro Ser Val Val Leu Ala Ser Tyr
            20                  25                  30

Asn His Asp Gly Thr Arg Asn Ile Leu Asp Asp Phe Arg Glu Ala Tyr
            35                  40                  45

Phe Trp Leu Arg Gln Asn Thr Asp Glu His Ala Arg Val Met Ser Trp
        50                  55                  60

Trp Asp Tyr Gly Tyr Gln Ile Ala Gly Met Ala Asn Arg Thr Thr Leu
65                  70                  75                      80

Val Asp Asn Asn Thr Trp Asn Asn Ser His Ile Ala Leu Val Gly Lys
                85                  90                  95

Ala Met Ser Ser Asn Glu Thr Ala Ala Tyr Lys Ile Met Arg Thr Leu
            100                 105                 110

Asp Val Asp Tyr Val Leu Val Ile Phe Gly Gly Val Ile Gly Tyr Ser
        115                 120                 125

Gly Asp Asp Ile Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly
    130                 135                 140

Glu His Pro Lys Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly
145                 150                 155                 160

Glu Phe Arg Val Asp Lys Ala Gly Ser Pro Thr Leu Leu Asn Cys Leu
            165                 170                 175

Met Tyr Lys Met Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe
            180                 185                 190

Arg Thr Pro Pro Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn
        195                 200                 205

Lys Asp Ile Lys Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His
    210                 215                 220

Trp Leu Val Arg Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr
225                 230                 235                 240

Leu Asp His Lys Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr
            245                 250                 255

Leu Ser Lys Lys Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys
            260                 265                 270

Leu Val Phe Lys Lys Gly Lys Lys Ile Ser Lys Lys Thr Val
            275                 280                 285
```

852

```
<210> 1278
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1278
Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Leu Pro Leu Cys Pro
 1               5                  10                  15

Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys
            20                  25                  30

Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu
            35                  40                  45

Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln
    50                  55                  60

Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu
 65                  70                  75                  80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu
                85                  90                  95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp
                100                 105                 110

Pro Gly Gly Cys Pro Ser Leu Leu Cys Lys Ala Trp Arg Leu Glu Glu
            115                 120                 125

Met Trp Ser Ser Glu Xaa Ala
    130                 135


<210> 1279
<211> 134
<212> PRT
<213> Homo sapiens

<400> 1279
Met Ser Ala Leu Arg Pro Leu Leu Leu Leu Leu Leu Pro Leu Cys Pro
 1               5                  10                  15

Gly Pro Gly Pro Gly Pro Gly Ser Glu Ala Lys Val Thr Arg Ser Cys
```

```
        20                      25                      30

Ala Glu Thr Arg Gln Val Leu Gly Ala Arg Gly Tyr Ser Leu Asn Leu
        35                      40                      45

Ile Pro Pro Ala Leu Ile Ser Gly Glu His Leu Arg Val Cys Pro Gln
    50                      55                      60

Glu Tyr Thr Cys Cys Ser Ser Glu Thr Glu Gln Arg Leu Ile Arg Glu
65                      70                      75                      80

Thr Glu Ala Thr Phe Arg Gly Leu Val Glu Asp Ser Gly Ser Phe Leu
                85                      90                      95

Val His Thr Leu Ala Ala Arg His Arg Lys Phe Asp Asp Asn Pro Asp
                100                     105                     110

Pro Gly Gly Cys Pro Ser Leu Cys Ala Gly Pro Gly Asp Trp Lys Lys
        115                     120                     125

Cys Gly Gln Arg Cys Ala
    130
```

<210> 1280
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1280

```
Cys Ala Leu Xaa Phe Glu Phe Phe Phe Phe Phe Phe Phe Leu Arg Trp
 1               5                   10                      15

Ser Leu Gly Asn Lys Ala Arg Leu Xaa Gln Lys Lys Lys Lys Lys Lys
            20                      25                      30

Lys Thr Ser Val Gly Lys Asn Met Glu Asn Trp Asn Pro Asp Thr Leu
        35                      40                      45

Leu Val Gly Leu
    50
```

<210> 1281
<211> 17
<212> PRT
<213> Homo sapiens

<400> 1281
Met Arg Val Val Ser Gly Thr Leu Phe Ile His Phe Leu Val Leu Ile
 1   5   10   15

Phe

<210> 1282
<211> 17
<212> PRT
<213> Homo sapiens

<400> 1282
Met Arg Val Val Ser Gly Thr Leu Phe Ile His Phe Leu Val Leu Ile
 1   5   10   15

Phe

<210> 1283
<211> 182
<212> PRT
<213> Homo sapiens

<400> 1283
Met Ala Lys Arg Ser Arg Gly Pro Gly Arg Arg Cys Leu Leu Ala Leu
 1   5   10   15

Val Leu Phe Cys Ala Trp Gly Thr Leu Ala Val Val Ala Gln Lys Pro
              20   25   30

Gly Ala Gly Cys Pro Ser Arg Cys Leu Cys Phe Arg Thr Thr Val Arg
          35   40   45

Cys Met His Leu Leu Leu Glu Ala Val Pro Ala Val Ala Pro Gln Thr
      50   55   60

Ser Ile Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu Ile Gln Pro Gly
  65   70   75   80

Ala Phe Arg Arg Leu Arg Asn Leu Asn Thr Leu Leu Leu Asn Asn Asn
                  85   90   95

Gln Ile Lys Arg Ile Pro Ser Gly Ala Phe Glu Asp Leu Glu Asn Leu
              100   105   110

Lys Tyr Leu Tyr Leu His Phe Asn Gln Ile Glu Thr Leu Asp Pro Asp
          115   120   125

Ser Phe Gln His Leu Pro Lys Leu Glu Arg Leu Phe Leu His Asn Asn
      130   135   140

Arg Ile Thr His Leu Val Pro Gly Thr Phe Asn His Leu Glu Ser Met
145   150   155   160

Lys Arg Leu Arg Leu Asp Ser Asn Thr Leu His Cys Asp Cys Glu Ile
              165   170   175

Leu Trp Leu Arg Ile Cys
              180

<210> 1284
<211> 550
<212> PRT
<213> Homo sapiens

<400> 1284
Ala Leu Pro Gln Gln Ala Ala Val Ala Gly Ile Val Gln Arg Ser Gly
  1   5   10   15

Lys Pro Leu Leu Pro Phe Ala Thr Gly Pro Pro Thr Glu Cys Met Arg
              20   25   30

Asp Glu Asn Glu Ser Pro Ile Pro Cys Phe Leu Ala Gly Asp His Arg
          35   40   45

Ala Asn Glu Gln Leu Gly Leu Thr Ser Met His Thr Leu Trp Phe Arg
      50   55   60

Glu His Asn Arg Ile Ala Thr Glu Leu Leu Lys Leu Asn Pro His Trp
 65   70   75   80

Asp Gly Asp Thr Ile Tyr Tyr Glu Thr Arg Lys Ile Val Gly Ala Glu
              85   90   95

Ile Gln His Ile Thr Tyr Gln His Trp Leu Pro Lys Ile Leu Gly Glu
              100   105   110

Val Gly Met Arg Thr Leu Gly Glu Tyr His Gly Tyr Asp Pro Gly Ile
          115   120   125

856

```
Asn Ala Gly Ile Phe Asn Ala Phe Ala Thr Ala Ala Phe Arg Phe Gly
    130             135             140

His Thr Leu Val Asn Pro Leu Leu Tyr Arg Leu Asp Glu Asn Phe Gln
145             150             155             160

Pro Ile Ala Gln Asp His Leu Pro Leu His Lys Ala Phe Phe Ser Pro
            165             170             175

Phe Arg Ile Val Asn Glu Gly Gly Ile Asp Pro Leu Leu Arg Gly Leu
            180             185             190

Phe Gly Val Ala Gly Lys Met Arg Val Pro Ser Gln Leu Leu Asn Thr
            195             200             205

Glu Leu Thr Glu Arg Leu Phe Ser Met Ala His Thr Val Ala Leu Asp
            210             215             220

Leu Ala Ala Ile Asn Ile Gln Arg Gly Arg Asp His Gly Ile Pro Pro
225             230             235             240

Tyr His Asp Tyr Arg Val Tyr Cys Asn Leu Ser Ala Ala His Thr Phe
            245             250             255

Glu Asp Leu Lys Asn Glu Ile Lys Asn Pro Glu Ile Arg Glu Lys Leu
            260             265             270

Lys Arg Leu Tyr Gly Ser Thr Leu Asn Ile Asp Leu Phe Pro Ala Leu
            275             280             285

Val Val Glu Asp Leu Val Pro Gly Ser Arg Leu Gly Pro Thr Leu Met
    290             295             300

Cys Leu Leu Ser Thr Gln Phe Lys Arg Leu Arg Asp Gly Asp Arg Leu
305             310             315             320

Trp Tyr Glu Asn Pro Gly Val Phe Ser Pro Ala Gln Leu Thr Gln Ile
            325             330             335

Lys Gln Thr Ser Leu Ala Arg Ile Leu Cys Asp Asn Ala Asp Asn Ile
            340             345             350

Thr Arg Val Gln Ser Asp Val Phe Arg Val Ala Glu Phe Pro His Gly
    355             360             365

Tyr Gly Ser Cys Asp Glu Ile Pro Arg Val Asp Leu Arg Val Trp Gln
    370             375             380

Asp Cys Cys Glu Asp Cys Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser
385             390             395             400
```

857

```
Tyr His Phe Arg Gly Arg Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp
            405             410             415

Lys Pro Thr Lys Lys Thr Arg Pro Arg Lys Ile Pro Ser Val Gly Arg
            420             425             430

Gln Gly Glu His Leu Ser Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser
        435             440             445

Asp Ala Ser Gly Thr Asn Asp Phe Arg Glu Phe Val Leu Glu Met Gln
    450             455             460

Lys Thr Ile Thr Asp Leu Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg
465             470             475             480

Leu Ser Thr Thr Glu Cys Val Asp Ala Gly Glu Ser His Ala Asn
            485             490             495

Asn Thr Lys Trp Lys Lys Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp
            500             505             510

Gly Gln Val Thr Cys Phe Val Glu Ala Cys Pro Pro Ala Thr Cys Ala
        515             520             525

Val Pro Val Asn Ile Pro Gly Ala Cys Cys Pro Val Cys Leu Gln Lys
    530             535             540

Arg Ala Glu Glu Lys Pro
545             550


<210> 1285
<211> 210
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1285
Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
  1           5             10              15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
```

Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
        35   40   45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
        50   55   60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
65   70   75   80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
                85   90   95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
            100   105   110

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
        115   120   125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly
        130   135   140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
145   150   155   160

Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu
                165   170   175

Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His
            180   185   190

Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser
        195   200   205

Gly Arg
210

<210> 1286
<211> 173
<212> PRT
<213> Homo sapiens

<400> 1286
Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1   5   10   15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
            20   25   30

859

```
Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
        35              40              45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
    50              55              60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
65              70              75              80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
                85              90              95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
            100             105             110

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
        115             120             125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
    130             135             140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
145             150             155             160

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu
            165             170


<210> 1287
<211> 148
<212> PRT
<213> Homo sapiens

<400> 1287
Met Thr Trp Lys Ile Lys Leu Arg Ser Ala Val Tyr Leu Ser Asp Ala
 1               5              10              15

Thr Val Thr Thr Leu Gly Asn Leu Val Pro Phe Thr Leu Thr Leu Leu
            20              25              30

Cys Phe Leu Leu Leu Ile Cys Ser Leu Cys Lys His Leu Lys Lys Met
        35              40              45

Gln Leu His Gly Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His Ile
    50              55              60

Lys Val Leu Gln Thr Val Ile Phe Phe Leu Leu Leu Cys Ala Ile Tyr
65              70              75              80

Phe Leu Ser Ile Met Ile Ser Val Trp Ser Phe Gly Ser Leu Glu Asn
            85              90              95
```

860

Lys Pro Val Phe Met Phe Cys Lys Ala Ile Arg Phe Ser Tyr Pro Ser
            100   105   110

Ile His Pro Phe Ile Leu Ile Trp Gly Asn Lys Lys Leu Lys Gln Thr
            115   120   125

Phe Leu Ser Val Leu Arg Gln Val Arg Tyr Trp Val Lys Gly Glu Lys
        130   135   140

Pro Ser Ser Pro
145

<210> 1288
<211> 55
<212> PRT
<213> Homo sapiens

<400> 1288
Asn Glu Arg Val Leu Thr Tyr Ser Leu Ile Gly Ser Ser Ile Ile Arg
 1   5   10   15

Lys Lys Cys Thr Val Leu Phe Thr Ala Lys Phe Tyr Leu Thr Val Leu
            20   25   30

Ile Leu Gly Val Met Lys Phe Lys Gln Cys Asp Leu Asn Leu Lys Lys
        35   40   45

Lys Lys Lys Lys Gly Arg Pro
    50   55

<210> 1289
<211> 273
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1289
Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu
 1   5   10   15

Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu
            20   25   30

861

Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu
        35   40   45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
        50   55   60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys
65   70   75   80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln
                85   90   95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile
            100   105   110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val
        115   120   125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val
        130   135   140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn
145   150   155   160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val
            165   170   175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu
            180   185   190

Pro Lys Ala Ser Glu Gln Ala Xaa Leu Pro Arg Cys Arg Gln Val Gly
        195   200   205

Asp Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp
        210   215   220

Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro
225   230   235   240

Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe
            245   250   255

Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro
            260   265   270

Gly

<210> 1290
<211> 273

862

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1290
Met Arg Leu Pro Gly Val Pro Leu Ala Arg Pro Ala Leu Leu Leu Leu
 1   5   10   15

Leu Pro Leu Leu Ala Pro Leu Leu Gly Thr Gly Ala Pro Ala Glu Leu
            20   25   30

Arg Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu
        35   40   45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
    50   55   60

Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys
 65   70   75   80

Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln
            85   90   95

Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile
            100   105   110

Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val
            115   120   125

Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val
    130   135   140

Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn
145   150   155   160

Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val
                165   170   175

Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu
            180   185   190

Pro Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly
            195   200   205

Asp Arg Gly Lys Pro Cys Val Cys Xaa Tyr Gly Leu Ser Leu Ala Trp
    210   215   220

Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro

Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe
                    245   250   255

Tyr Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro
                    260   265   270

Gly

<210> 1291
<211> 934
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (596)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (852)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1291
Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu
  1   5   10   15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly
                20   25   30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys
            35   40   45

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser
      50   55   60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile
  65   70   75   80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu
                85   90   95

864

```
Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys
            100                 105                 110

Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser
            115                 120                 125

Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala
            130                 135                 140

Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg
145                 150                 155                 160

Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu
                165                 170                 175

Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly
                180                 185                 190

Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro
            195                 200                 205

His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr
            210                 215                 220

Xaa Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser
225                 230                 235                 240

Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser
                245                 250                 255

Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr
                260                 265                 270

Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu
            275                 280                 285

Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser
            290                 295                 300

Gly Tyr Ala Leu Ala Glu Asp Gly Lys Arg Cys Val Ala Val Asp Tyr
305                 310                 315                 320

Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp
                325                 330                 335

Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp
            340                 345                 350

Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly
            355                 360                 365

Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys
```

865

```
        370                375                380

Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile
385                390                395                400

Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn
                405                410                415

Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp
                420                425                430

Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His Cys Ala Gln Gln Asp
                435                440                445

His Gly Cys Glu Gln Leu Cys Leu Asn Thr Glu Asp Ser Phe Val Cys
                450                455                460

Gln Cys Ser Glu Gly Phe Leu Ile Asn Glu Asp Leu Lys Thr Cys Ser
465                470                475                480

Arg Val Asp Tyr Cys Leu Leu Ser Asp His Gly Cys Glu Tyr Ser Cys
                485                490                495

Val Asn Met Asp Arg Ser Phe Ala Cys Gln Cys Pro Glu Gly His Val
                500                505                510

Leu Arg Ser Asp Gly Lys Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu
                515                520                525

Gly Asp His Gly Cys Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe
                530                535                540

Val Cys Gln Cys Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr
545                550                555                560

Cys Arg Arg Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His
                565                570                575

Ile Cys Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly
                580                585                590

Phe Arg Leu Xaa Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys
                595                600                605

Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly Asn
610                615                620

Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu Asp Gly
625                630                635                640

Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu Val Phe Val
                645                650                655

                       866
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```
Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe Glu Val Val Lys
            660             665             670

Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr Ile Ser Pro Lys Ala
        675             680             685

Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr Gln Val His Thr Glu Phe
    690             695             700

Thr Leu Arg Asn Phe Asn Ser Ala Lys Asp Met Lys Lys Ala Val Ala
705             710             715             720

His Met Lys Tyr Met Gly Lys Gly Ser Met Thr Gly Leu Ala Leu Lys
                725             730             735

His Met Phe Glu Arg Ser Phe Thr Gln Gly Glu Gly Ala Arg Pro Leu
            740             745             750

Ser Thr Arg Val Pro Arg Ala Ala Ile Val Phe Thr Asp Gly Arg Ala
        755             760             765

Gln Asp Asp Val Ser Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile
    770             775             780

Thr Met Tyr Ala Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln
785             790             795             800

Glu Ile Ala Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp
                805             810             815

Phe Ser Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys
            820             825             830

Glu Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu
        835             840             845

Leu Pro Lys Xaa Val Gln Gln Pro Thr Val Gln His Arg Tyr Leu Phe
    850             855             860

Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln Lys Leu Ser His Ser Thr
865             870             875             880

Lys Pro Ser Gly Ser Pro Leu Glu Glu Lys His Asp Gln Cys Lys Cys
                885             890             895

Glu Asn Leu Ile Met Phe Gln Asn Leu Ala Asn Glu Glu Val Arg Lys
            900             905             910

Leu Thr Gln Arg Leu Glu Glu Met Thr Gln Arg Met Glu Ala Leu Glu
        915             920             925
```

Asn Arg Leu Arg Tyr Arg
    930

<210> 1292
<211> 794
<212> PRT
<213> Homo sapiens

<400> 1292
Met Leu Ala Gly Cys Phe Leu Leu Ile Leu Gly Gln Ile Val Leu Leu
 1   5   10   15

Pro Ala Glu Ala Arg Glu Arg Ser Arg Gly Arg Ser Ile Ser Arg Gly
                20   25   30

Arg His Ala Arg Thr His Pro Gln Thr Ala Leu Leu Glu Ser Ser Cys
            35   40   45

Glu Asn Lys Arg Ala Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser
        50   55   60

Val Asn Thr His Asp Tyr Ala Lys Val Lys Glu Phe Ile Val Asp Ile
65   70   75   80

Leu Gln Phe Leu Asp Ile Gly Pro Asp Val Thr Arg Val Gly Leu Leu
                85   90   95

Gln Tyr Gly Ser Thr Val Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys
            100   105   110

Arg Lys Ser Glu Val Glu Arg Ala Val Lys Arg Met Arg His Leu Ser
            115   120   125

Thr Gly Thr Met Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala
        130   135   140

Phe Ser Glu Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg
145   150   155   160

Val Ile Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu
                165   170   175

Val Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly
            180   185   190

Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu Pro
            195   200   205

His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile Glu Thr
    210   215   220

868

```
Leu Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His Met Cys Ser
225             230             235                 240

Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn Ile Pro Gly Ser
            245             250             255

Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu Asn Ser Asp Gln Thr
            260             265             270

Thr Cys Arg Ile Gln Asp Leu Cys Ala Met Glu Asp His Asn Cys Glu
        275             280             285

Gln Leu Cys Val Asn Val Pro Gly Ser Phe Val Cys Gln Cys Tyr Ser
    290             295             300

Gly Tyr Ala Leu Ala Glu Asp Gly Lys Arg Cys Val Ala Val Asp Tyr
305             310             315             320

Cys Ala Ser Glu Asn His Gly Cys Glu His Glu Cys Val Asn Ala Asp
            325             330             335

Gly Ser Tyr Leu Cys Gln Cys His Glu Gly Phe Ala Leu Asn Pro Asp
        340             345             350

Glu Lys Thr Cys Thr Lys Ile Asp Tyr Cys Ala Ser Ser Asn His Gly
        355             360             365

Cys Gln His Glu Cys Val Asn Thr Asp Asp Ser Tyr Ser Cys His Cys
    370             375             380

Leu Lys Gly Phe Thr Leu Asn Pro Asp Lys Lys Thr Cys Arg Arg Ile
385             390             395             400

Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu Cys Val Asn
            405             410             415

Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly Tyr Thr Leu Asp
            420             425             430

Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His Cys Ala Gln Gln Asp
        435             440             445

His Gly Cys Glu Gln Leu Cys Leu Asn Thr Glu Asp Ser Phe Val Cys
    450             455             460

Gln Cys Ser Glu Gly Phe Leu Ile Asn Glu Asp Leu Lys Thr Cys Ser
465             470             475             480

Arg Val Asp Tyr Cys Leu Leu Ser Asp His Gly Cys Glu Tyr Ser Cys
            485             490             495
```

869

Val Asn Met Asp Arg Ser Phe Ala Cys Gln Cys Pro Glu Gly His Val
                500   505   510

Leu Arg Ser Asp Gly Lys Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu
                515   520   525

Gly Asp His Gly Cys Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe
        530   535   540

Val Cys Gln Cys Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr·
545   550   555   560

Cys Arg Arg Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His
        .   565   570   575

Ile Cys Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly
                580   585   590

Phe Arg Leu Ala Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys
        595   600   605

Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly Asn
        610   615   620

Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu Asp Gly
625   630   635   640

Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu Val Phe Val
                645   650   655

Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe Glu Val Val Lys
                660   665   670

Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr Ile Ser Pro Lys Ala
        675   680   .   685

Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr Gln Val His Thr Glu Phe
        690   695   700

Thr Leu Arg Asn Phe Asn Ser Ala Lys Asp Met Lys Lys Ala Val Ala
705   710   715   720

His Met Lys Tyr Met Gly Lys Gly Ser Met Thr Gly Leu Ala Leu Lys
                725   730   735

His Met Phe Glu Arg Ser Phe Thr Gln Gly Glu Gly Ala Arg Pro Leu
        740   745   750

Ser Thr Arg Val Pro Arg Ala Ala Ile Val Phe Thr Asp Gly Arg Ala
        755   760   765

Gln Asp Asp Val Ser Glu Trp Ala Ser Lys Ala Arg Pro Trp Tyr His

870

```
        770                775                780
Tyr Val Cys Cys Trp Gly Arg Lys Ser His
785                790


<210> 1293
<211> 39
<212> PRT
<213> Homo sapiens

<400> 1293
Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Leu Cys Phe Gly
 1               5                  10                  15

Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu
            20                  25                  30

Asn Arg Met Val Gly Gly Gln
            35



<210> 1294
<211> 290
<212> PRT
<213> Homo sapiens

<400> 1294
Met Arg Arg Pro Ala Ala Val Pro Leu Leu Leu Leu Leu Cys Phe Gly
 1               5                  10                  15

Ser Gln Arg Ala Lys Ala Ala Thr Ala Cys Gly Arg Pro Arg Met Leu
            20                  25                  30

Asn Arg Met Val Gly Gly Gln Asp Thr Gln Glu Gly Glu Trp Pro Trp
            35                  40                  45

Gln Val Ser Ile Gln Arg Asn Gly Ser His Phe Cys Gly Gly Ser Leu
    50                  55                  60

Ile Ala Glu Gln Trp Val Leu Thr Ala Ala His Cys Phe Arg Asn Thr
 65                 70                  75                  80

Ser Glu Thr Ser Leu Tyr Gln Val Leu Leu Gly Ala Arg Gln Leu Val
                85                  90                  95

Gln Pro Gly Pro His Ala Met Tyr Ala Arg Val Arg Gln Val Glu Ser
            100                 105                 110

Asn Pro Leu Tyr Gln Gly Thr Ala Ser Ser Ala Asp Val Ala Leu Val

                          871
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Glu Leu Glu Ala Pro Val Pro Phe Thr Asn Tyr Ile Leu Pro Val Cys
    130   135   140

Leu Pro Asp Pro Ser Val Ile Phe Glu Thr Gly Met Asn Cys Trp Val
145   ·   150   155   160

Thr Gly Trp Gly Ser Pro Ser Glu Glu Asp Leu Leu Pro Glu Pro Arg
                165   170   175

Ile Leu Gln Lys Leu Ala Val Pro Ile Ile Asp Thr Pro Lys Cys Asn
                180   185   190

Leu Leu Tyr Ser Lys Asp Thr Glu Phe Gly Tyr Gln Pro Lys Thr Ile
            195   200   205

Lys Asn Asp Met Leu Cys Ala Gly Phe Glu Glu Gly Lys Lys Asp Ala
    210   215   220

Cys Lys Gly Asp Ser Gly Gly Pro Leu Val Cys Leu Val Gly Gln Ser
225   230   235   240

Trp Leu Gln Ala Gly Val Ile Ser Trp Gly Glu Gly Cys Ala Arg Gln
                245   250   255

Asn Arg Pro Gly Val Tyr Ile Arg Val Thr Ala His His Asn Trp Ile
                260   265   270

His Arg Ile Ile Pro Lys Leu Gln Phe Gln Pro Ala Arg Leu Gly Gly
            275   280   285

Gln Lys
    290

<210> 1295
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1295
```
Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp
 1               5                  10                  15

Val Leu Gln Gln Ala Asn Arg Ser Ala Gln Gln Leu Thr Ala Thr Gly
              20                  25                  30

Gln Ser Leu Met Gln Ser Gln Arg Leu Ala Lys Ser Val Ser Gln Ala
         35                  40                  45

Leu Val Gly Ser Pro Gln Ala Phe Pro Asp Val Val Glu Ser Ser Gly
      50                  55                  60

Val Leu Ala Arg Asn Val Arg Ala Leu Asn Gly Gly Xaa Asn Glu Leu
 65                  70                  75                  80

Asp Val Gln Ala Leu Gly Glu Pro Phe Arg Pro Glu Leu Asp Ala Ile
              85                  90                  95

Thr Pro Leu Val Glu Arg Ala Glu Arg Asn Ala Gly Val Val Met Gly
             100                 105                 110

Gln Gln Lys Ile Leu Thr Gln Val Gly Xaa Ala Leu Arg Thr Ile Lys
         115                 120                 125

Pro Pro Val Leu Gly Pro Cys Trp Arg Ser Arg Arg Xaa Ser Ser Ser
     130                 135                 140
```


<210> 1296
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

873

<400> 1296
Thr Ser Arg Val Trp Cys Pro His Val Arg Arg Asn Arg Pro Ser Xaa
 1   5   10   15

Gln Thr Ala Glu Pro Cys Ala Val Asn Trp Lys Ala Cys Lys Ala Thr
            20   25   30

Val Gly Thr Ile Gly His Gly Cys Gly Pro Ala Ile Ala Leu Ala Val
            35   40   45

Ala Gly Ile Phe Val Leu Leu Cys Gly Val Gly Ile Ser Arg Val Gln
        50   55   60

Leu Leu Asp Ser Arg Ser Arg Xaa Ala Thr Ala Glu Ala Gln Gln Arg
 65   70   75   80

Asp Ala Lys Arg Gln Glu Gln Glu Ala Lys Arg Ile Asn Asp Ala Asn
                85   90   95

Gln Ala Ala Ile Leu Arg Leu Met Asn Glu Leu Gln Ser Val Ala Glu
            100   105   110

Gly Asp Leu Thr Gln Glu Ala Thr Val Thr Glu Asp Ile Thr Gly Ala
            115   120   125

Ile Ala Asp Ser Val Asn Tyr Thr Val Glu Glu Ser Ala Ser Trp Trp
        130   135   140

Ala Thr Cys Arg Thr Pro Arg Pro Gly Trp Pro Arg Pro Pro Arg Arg
145   150   155   160

Trp Thr Ala Pro Leu Arg Asn Cys Trp Arg Leu Arg Pro Ser Ser Cys
            165   170   175

Val Lys Ser Val Lys Arg Ala Val Arg Cys Ser
            180   185

<210> 1297
<211> 346
<212> PRT
<213> Homo sapiens

<400> 1297
Met Leu Leu Gly Val Gly Leu Val Val Leu Ala Leu Ile Ala Gly Trp
 1   5   10   15

Val Leu Gln Gln Ala Asn Arg Ser Ala Gln Gln Leu Thr Ala Thr Gly
            20   25   30

                                    874

```
Gln Ser Leu Met Gln Ser Gln Arg Leu Ala Lys Ser Val Ser Gln Ala
        35                  40                  45

Leu Val Gly Ser Pro Gln Ala Phe Pro Asp Val Val Glu Ser Ser Gly
        50                  55                  60

Val Leu Ala Arg Asn Val Arg Ala Leu Asn Gly Gly Asp Asn Glu Leu
65                  70                  75                      80

Asp Val Gln Ala Leu Gly Glu Pro Phe Arg Pro Glu Leu Asp Ala Ile
                85                  90                  95

Thr Pro Leu Val Glu Arg Ala Glu Arg Asn Ala Gly Val Val Met Gly
                100                 105                 110

Gln Gln Lys Ile Leu Thr Gln Val Gly Asp Ala Leu Arg Thr Ile Asn
        115                 120                 125

Arg Gln Ser Ser Asp Leu Leu Glu Ile Ala Glu Thr Val Ser Ser Leu
        130                 135                 140

Lys Leu Gln Gln Asn Ala Pro Ala Ser Glu Ile Ser Ala Ala Gly Gln
145                 150                 155                 160

Leu Val Met Leu Thr Gln Arg Ile Gly Lys Ser Ala Asn Glu Phe Gln
                165                 170                 175

Thr Thr Glu Gly Val Ser Pro Glu Ala Val Phe Leu Leu Gly Lys Asp
                180                 185                 190

Leu Asn Ser Phe Lys Glu Ile Ala Arg Gly Met Leu Asp Gly Ser Ala
        195                 200                 205

Asp Leu Arg Leu Ala Ala Thr Arg Asp Ala Gln Thr Arg Glu Gln Leu
    210                 215                 220

Glu Ser Leu Ile Lys Leu Tyr Glu Gln Thr Arg Thr Gln Ala Gly Ala
225                 230                 235                 240

Ile Leu Gly Asn Leu Gln Gly Leu Val Ser Ala Arg Glu Ala Gln Ser
                245                 250                 255

Ala Ile Leu Ala Asp Ser Glu Pro Leu Arg Arg Gln Leu Glu Gly Leu
        260                 265                 270

Gln Ser Lys Leu Ser Ala Gln Ser Gly Met Gly Ala Ala Ser Ser Leu
        275                 280                 285

Arg Ser Pro Ser Pro Val Ser Ser Ser Cys Cys Ala Ala Trp Val Phe
    290                 295                 300

Arg Ala Cys Ser Cys Trp Thr Ala Ala Ala Ala Lys Pro Arg Pro Lys

                              875
```

His Ser Ser Val Met Pro Ser Ala Arg Asn Arg Lys Pro Ser Ala Ser
              325   330   335

Thr Thr Pro Thr Arg Arg Pro Phe Cys Asp
              340   345

<210> 1298
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1298
Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala
 1   5   10   15

Val Leu Pro Leu Ser Ser Gln Ser Met Pro Phe Leu Gln
              20   25

<210> 1299
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1299
Met His Leu Val Gly Gly Thr Leu Leu Val Leu Ala Pro Arg Gly Ala
 1   5   10   15

Val Leu Pro Leu Ser Ser Gln Ser Met Pro Phe Leu Gln
              20   25

<210> 1300
<211> 299
<212> PRT
<213> Homo sapiens

<400> 1300
Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile
 1   5   10   15

Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
              20   25   30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu
              35   40   45

```
Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
    50                  55                  60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr
65                  70                  75                      80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
                85                  90                  95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
                100                 105                 110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val
        115                 120                 125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr
        130                 135                 140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro
145                 150                 155                 160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn
                165                 170                 175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro
                180                 185                 190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly
        195                 200                 205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
    210                 215                 220

Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
225                 230                 235                 240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
                245                 250                 255

Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
            260                 265                 270

Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu
        275                 280                 285

Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
    290                 295
```

<210> 1301

877

<211> 299
<212> PRT
<213> Homo sapiens

<400> 1301
Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile
 1   5   10   15

Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
             20   25   30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu
         35   40   45

Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
     50   55   60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr
 65   70   75   80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
             85   90   95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
             100   105   110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val
         115   120   125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr
     130   135   140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro
145   150   155   160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn
             165   170   175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro
             180   185   190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly
         195   200   205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
     210   215   220

Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
225   230   235   240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
             245   250   255

878

Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
            260   265   270

Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu
            275   280   285

Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
        290   295

<210> 1302
<211> 136
<212> PRT
<213> Homo sapiens

<400> 1302
Ala Arg Ala Lys Pro Glu Arg Pro Ala Gly Trp Ala Glu Ser Val Leu
  1   5   10   15

Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala Phe Ser Arg Thr Val Gly
            20   25   30

Thr Ile Gln His Cys Leu His Leu Thr Ser Val Tyr Thr His Phe Leu
            35   40   45

Pro Gln Arg Gly Arg Pro Glu Val Thr Thr Met Pro Leu Gly Leu Gly
        50   55   60

Met Thr Val Asp Tyr Ile Phe Phe Ser Ala Glu Ser Cys Glu Asn Gly
  65   70   75   80

Asn Arg Thr Asp His Arg Leu Tyr Arg Asp Gly Thr Leu Lys Leu Leu
                85   90   95

Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile Leu Trp Ala Ala Asn Gly
            100   105   110

Leu Pro Asn Pro Phe Cys Ser Ser Asp His Leu Cys Leu Leu Ala Ser
            115   120   125

Phe Gly Met Glu Val Thr Ala Pro
        130   135

<210> 1303
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1303
Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
 1   5   10   15

Phe Arg Ala Leu Ser Xaa Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
             20   25   30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
         35   40   45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
     50   55   60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
 65   70   75   80

Leu Ile Xaa Lys Gly Leu Ala Gln Ser Ser Leu Xaa Leu Leu Xaa Asp
                 85   90   95

Asn Pro Gly Glu
             100

<210> 1304
<211> 670
<212> PRT
<213> Homo sapiens

<400> 1304
Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
 1   5   10   15

880

Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
            20   25   30

Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
            35   40   45

Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
        50   55   60

Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
65   70   75   80

Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp
                85   90   95

Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg
            100   105   110

Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro
        115   120   125

Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly
        130   135   140

Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp
145   150   155   160

Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu
            165   170   175

Asp Pro Ala Val Leu Ala Trp Ser Ile Ala Pro Glu Pro Val Pro Gln
            180   185   190

Glu Glu Ala Ser Ile Trp Pro Phe Glu Gly Leu Gly Gln Leu Gln Pro
        195   200   205

Pro Ala Val Glu Ile Pro Tyr His Glu Ile Leu Trp Arg Glu Trp Glu
        210   215   220

Asp Phe Ser Thr Gln Pro Asp Ala Gln Gly Leu Lys Ala Gly Asp Gly
225   230   235   240

Pro Gln Phe Gln Phe Thr Leu Met Ser Tyr Asn Ile Leu Ala Gln Asp
            245   250   255

Leu Met Gln Gln Ser Ser Glu Leu Tyr Leu His Cys His Pro Asp Ile
        260   265   270

Leu Asn Trp Asn Tyr Arg Phe Val Asn Leu Met Gln Glu Phe Gln His
        275   280   285

881

```
Trp Asp Pro Asp Ile Leu Cys Leu Gln Glu Val Gln Glu Asp His Tyr
    290             295             300

Trp Glu Gln Leu Glu Pro Ser Leu Arg Met Met Gly Phe Thr Cys Phe
305             310             315             320

Tyr Lys Arg Arg Thr Gly Cys Lys Thr Asp Gly Cys Ala Val Cys Tyr
            325             330             335

Lys Pro Thr Arg Phe Arg Leu Leu Cys Ala Ser Pro Val Glu Tyr Phe
            340             345             350

Arg Pro Gly Leu Glu Leu Leu Asn Arg Asp Asn Val Gly Leu Val Leu
        355             360             365

Leu Leu Gln Pro Leu Val Pro Glu Gly Leu Gly Gln Val Ser Val Ala
    370             375             380

Pro Leu Cys Val Ala Asn Thr His Ile Leu Tyr Asn Pro Arg Arg Gly
385             390             395             400

Asp Val Lys Leu Ala Gln Met Ala Ile Leu Leu Ala Glu Val Asp Lys
            405             410             415

Val Ala Arg Leu Ser Asp Gly Ser His Cys Pro Ile Ile Leu Cys Gly
            420             425             430

Asp Leu Asn Ser Val Pro Asp Ser Pro Leu Tyr Asn Phe Ile Arg Asp
            435             440             445

Gly Glu Leu Gln Tyr His Gly Met Pro Ala Trp Lys Val Ser Gly Gln
    450             455             460

Glu Asp Phe Ser His Gln Leu Tyr Gln Arg Lys Leu Gln Ala Pro Leu
465             470             475             480

Trp Pro Ser Ser Leu Gly Ile Thr Asp Cys Cys Gln Tyr Val Thr Ser
            485             490             495

Cys His Pro Lys Arg Ser Glu Arg Arg Lys Tyr Gly Arg Asp Phe Leu
            500             505             510

Leu Arg Phe Arg Phe Cys Ser Ile Ala Cys Gln Arg Pro Val Gly Leu
        515             520             525

Val Leu Met Glu Gly Val Thr Asp Thr Lys Pro Glu Arg Pro Ala Gly
    530             535             540

Trp Ala Glu Ser Val Leu Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala
545             550             555             560

Phe Ser Arg Thr Val Gly Thr Ile Gln His Cys Leu His Leu Thr Ser
```

882

Val Tyr Thr His Phe Leu Pro Gln Arg Gly Arg Pro Glu Val Thr Thr
            580   585   590

Met Pro Leu Gly Leu Gly Met Thr Val Asp Tyr Ile Phe Phe Ser Ala
            595   600   605

Glu Ser Cys Glu Asn Gly Asn Arg Thr Asp His Arg Leu Tyr Arg Asp
        610   615   620   .

Gly Thr Leu Lys Leu Leu Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile
625   630   635   640

Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His
            645   650   655

Leu Cys Leu Leu Ala Ser Phe Gly Met Glu Val Thr Ala Pro   .
            660   665   670

                                    .

<210> 1305
<211> 228
<212> PRT
<213> Homo sapiens

<220>   .
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1305
Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val
 1   5   10   15

Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val
                20   25   30

Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly
            35   40   45

Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile
      50   55   60

Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys
 65   70   75   80

Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile
                85   90   95

Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His
            100   105   110

Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala
            115   120   125

Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr
      130   135   140

Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr
145   150   155   160

Leu Cys Arg Xaa Ser Leu Xaa Leu Leu Leu Glu Ala Tyr Phe Cys Gly
            165   170   175

Lys Val Gly Arg Asn Asn His Lys Phe Ile Ser Gln Leu Met Cys Asp
            180   185   190

Tyr Phe Phe Lys Cys Met Thr Xaa Lys Ser Gly Ile Gly Xaa Phe Glu
      195   200   205

Leu Gly Asp Asp His Phe Val Lys Leu Asn Val Gly Xaa Leu Ala Phe
      210   215   220

Leu Phe Lys Phe
225

<210> 1306
<211> 170
<212> PRT
<213> Homo sapiens

<400> 1306
```
Met Ala Ala Ala Gly Ser Val Lys Ala Ala Leu Gln Val Ala Glu Val
 1               5              10               15

Leu Glu Ala Ile Val Ser Cys Cys Val Gly Pro Glu Gly Arg Gln Val
              20              25               30

Leu Cys Thr Lys Pro Thr Gly Glu Val Leu Leu Ser Arg Asn Gly Gly
          35              40               45             .

Arg Leu Leu Glu Ala Leu His Leu Glu His Pro Ile Ala Arg Met Ile
      50              55               60

Val Asp Cys Val Ser Ser His Leu Lys Lys Thr Gly Asp Gly Ala Lys
 65              70               75                       80

Thr Phe Ile Ile Phe Leu Cys His Leu Leu Arg Gly Leu His Ala Ile
              85              90               95          :

Thr Asp Arg Glu Lys Asp Pro Leu Met Cys Glu Asn Ile Gln Thr His
          100             105             110

Gly Arg His Trp Lys Asn Cys Ser Arg Trp Lys Phe Ile Ser Gln Ala
          115             120             125

Leu Leu Thr Phe Gln Thr Gln Ile Leu Asp Gly Ile Met Asp Gln Tyr
      130             135             140

Leu Ser Arg His Phe Leu Ser Ile Phe Ser Ser Ala Lys Glu Arg Thr
145             150             155                     160

Leu Cys Arg Ser Ser Leu Glu Ser Val Ser
              165             170
```

<210> 1307
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1307
Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly
 1               5                  10                  15

Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu
            20                  25                  30

Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg
            35                  40                  45

Asp Cys Tyr Glu Val Leu Gly Val Ser Arg Ser Ala Gly Lys Ala Glu
        50                  55                  60

Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg
 65                  70                  75                  80

Tyr Arg Pro Gln Pro Gly Xaa Glu Gly Pro Gly Arg Thr Pro Xaa Ser
                85                  90                  95

Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Xaa Tyr Glu Thr Leu Lys
            100                 105                 110

Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu
            115                 120                 125

Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Leu
    130                 135                 140

Arg Trp Met Leu Glu
145




<210> 1308
<211> 360
<212> PRT
<213> Homo sapiens

<400> 1308
Met Gly Ala Pro Leu Leu Ser Pro Gly Trp Gly Ala Gly Ala Ala Gly
 1               5                  10                  15

Arg Arg Trp Trp Met Leu Leu Ala Pro Leu Leu Pro Ala Leu Leu Leu
            20                  25                  30

Val Arg Pro Ala Gly Ala Leu Val Glu Gly Leu Tyr Cys Gly Thr Arg
            35                  40                  45
```

```
Asp Cys Tyr Glu Val Leu Gly Val Ser Arg Ser Ala Gly Lys Ala Glu
    50                      55                  60

Ile Ala Arg Ala Tyr Arg Gln Leu Ala Arg Arg Tyr His Pro Asp Arg
65                  70                  75                      80

Tyr Arg Pro Gln Pro Gly Asp Glu Gly Pro Gly Arg Thr Pro Gln Ser
                85                  90                  95

Ala Glu Glu Ala Phe Leu Leu Val Ala Thr Ala Tyr Glu Thr Leu Lys
            100                 105                 110

Asp Glu Glu Thr Arg Lys Asp Tyr Asp Tyr Met Leu Asp His Pro Glu
            115                 120                 125

Glu Tyr Tyr Ser His Tyr Tyr His Tyr Tyr Ser Arg Arg Leu Ala Pro
    130                 135                 140

Lys Val Asp Val Arg Val Val Ile Leu Val Ser Val Cys Ala Ile Ser
145                 150                 155                 160

Val Phe Gln Phe Phe Ser Trp Trp Asn Ser Tyr Asn Lys Ala Ile Ser
                165                 170                 175

Tyr Leu Ala Thr Val Pro Lys Tyr Arg Ile Gln Ala Thr Glu Ile Ala
            180                 185                 190

Lys Gln Gln Gly Leu Leu Lys Lys Ala Lys Glu Lys Gly Lys Asn Lys
            195                 200                 205

Lys Ser Lys Glu Glu Ile Arg Asp Glu Glu Glu Asn Ile Ile Lys Asn
    210                 215                 220

Ile Ile Lys Ser Lys Ile Asp Ile Lys Gly Gly Tyr Gln Lys Pro Gln
225                 230                 235                 240

Ile Cys Asp Leu Leu Leu Phe Gln Ile Ile Leu Ala Pro Phe His Leu
            245                 250                 255

Cys Ser Tyr Ile Val Trp Tyr Cys Arg Trp Ile Tyr Asn Phe Asn Ile
            260                 265                 270

Lys Gly Lys Glu Tyr Gly Glu Glu Glu Arg Leu Tyr Ile Ile Arg Lys
    275                 280                 285

Ser Met Lys Met Ser Lys Ser Gln Phe Asp Ser Leu Glu Asp His Gln
    290                 295                 300

Lys Glu Thr Phe Leu Lys Arg Glu Leu Trp Ile Lys Glu Asn Tyr Glu
305                 310                 315                 320
```

```
Val Tyr Lys Gln Glu Gln Glu Glu Glu Leu Lys Lys Lys Leu Ala Asn
              325             330             335

Asp Pro Arg Trp Lys Arg Tyr Arg Arg Trp Met Lys Asn Glu Gly Pro
              340             345             350

Gly Arg Leu Thr Phe Val Asp Asp
              355             360




<210> 1309
<211> 128
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1309
Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu
  1               5               10              15

Phe Leu Ile Leu Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser
              20              25              30

Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser
              35              40              45

Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr
       50              55              60

Asp Leu Thr Thr Gly Pro Thr Ser Ser Pro Ala Pro Leu Gly Ile Leu
 65              70              75              80

His Thr Ala Val Arg Val Thr His Leu His Thr Leu Thr Leu Met Gly
              85              90              95

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Asn Leu Gly
              100             105             110

Leu Val Phe Arg Lys Ala Arg Gly Ser Xaa Phe Pro Thr Leu Gly Arg
              115             120             125




<210> 1310
```

<211> 112
<212> PRT
<213> Homo sapiens

<400> 1310
Met Glu Ser His Leu Ser Thr Trp Pro Cys His Pro Ser Cys Cys Leu
 1   5   10   15

Phe Leu Ile Leu Leu Phe Pro Ser His Pro Thr Ser Met Thr Lys Ser
            20   25   30

Lys Ala Arg Leu Pro His Leu Glu Asn Cys Ser Gln Asn Asp Thr Ser
        35   40   45

Lys Pro Leu Gly Gln Ala Arg Pro Pro Ser Ser Pro Thr Arg Thr Thr
     50   55   60

Asp Leu Thr Thr Gly Pro Thr Ser Ser Pro Ala Pro Leu Gly Ile Leu
65   70   75   80

His Thr Ala Val Arg Val Thr His Leu His Thr Leu Thr Leu Met Gly
                85   90   95

Glu Glu Lys Ala Val Phe Val Ala Arg Ala Gln Val Gly Thr Leu Ala
            100   105   110

<210> 1311
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1311
Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly
 1   5   10   15

Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe
            20   25   30

Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala
        35   40   45

Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn
     50   55   60

Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile
65   70   75   80

Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly
                85   90   95

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
                100   105

<210> 1312
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1312
Asn His Ile Gln His Lys Asn Tyr Phe Trp Leu Asn Ser Thr Glu Lys
 1   5   10   15

Tyr Phe Asn Leu Pro Val Glu Ile Leu Val Met Glu Arg Cys Gln Thr
                20   25   30

Val Leu Asn Gly Arg Thr Ser Lys Ser Glu Ala Thr Val Pro Thr Thr
                35   40   45

Arg Gly Leu Leu Tyr Cys Ser Thr Phe Ser Ala Leu Tyr Phe Leu Ala
    50   55   60

Glu Ala Ser Pro Trp Ser Ala Met Tyr Lys Leu Gly Tyr
 65   70   75

<210> 1313
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1313
Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly
 1   5   10   15

Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe
                20   25   30

Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala
                35   40   45

Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn
    50   55   60

Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile
 65   70   75   80

890

Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr Ala Trp Tyr Gly
                  85   90   95

Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
               100   105

<210> 1314
<211> 176
<212> PRT
<213> Homo sapiens

<400> 1314
Met Ser Ala Gly Gly Ala Ser Val Pro Pro Pro Pro Asn Pro Ala Val
  1   5   10   15

Ser Phe Pro Pro Pro Arg Val Thr Leu Pro Ala Gly Pro Asp Ile Leu
               20   25   30

Arg Thr Tyr Ser Gly Ala Phe Val Cys Leu Glu Ile Leu Phe Gly Gly
           35   40   45

Leu Val Trp Ile Leu Val Ala Ser Ser Asn Val Pro Leu Pro Leu Leu
       50   55   60

Gln Gly Trp Val Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu
 65   70   75   80

Leu Phe Leu Gly Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala
               85   90   95

Asn Trp Asn Phe Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe
               100   105   110

Tyr Phe Gly Ala Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp
           115   120   125

Leu His Cys Asn Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn
       130   135   140

Gln Tyr Asn Ile Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr
145   150   155   160

Ala Cys Tyr Gly Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
               165   170   175

891

<210> 1315
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1315
Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe
1   5   10   15

Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile
                20   25   30

Ser Val Pro Ala Leu Leu Gly Tyr Leu Gln Glu Val Cys Arg Ala Arg
            35   40   45

Leu Pro Asp Ser Glu Leu Met Arg Arg Lys Tyr His Ser Val Arg Gln
        50   55   60

Glu Asp Leu Gln Arg Val Arg Leu Ser Arg Pro Glu Ala Val Ala Glu
65   70   75   80

Val Lys Ser Phe Leu Ile Gln Leu Glu Ala Phe Leu Lys Pro Pro Val
                85   90   95

Leu His Met Leu Lys Pro Pro
            100

<210> 1316
<211> 237
<212> PRT
<213> Homo sapiens

<400> 1316
Met Pro Leu Cys Ser Leu Leu Thr Cys Leu Gly Leu Asn Val Leu Phe
1   5   10   15

Leu Thr Leu Asn Glu Gly Ala Trp Tyr Ser Val Gly Ala Leu Met Ile
                20   25   30

Ser Val Pro Ala Leu Leu Gly Tyr Leu Gln Glu Val Cys Arg Ala Arg
            35   40   45

Leu Pro Asp Ser Glu Leu Met Arg Arg Lys Tyr His Ser Val Arg Gln
        50   55   60

Glu Asp Leu Gln Arg Val Arg Leu Ser Arg Pro Glu Ala Val Ala Glu
65   70   75   80

Val Lys Ser Phe Leu Ile Gln Leu Glu Ala Phe Leu Ser Arg Leu Cys
                85   90   95

892

```
Cys Thr Cys Glu Ala Ala Tyr Arg Val Leu His Trp Glu Asn Pro Val
            100                 105                 110

Val Ser Ser Gln Phe Tyr Gly Ala Leu Leu Gly Thr Val Cys Met Leu
            115                 120                 125

Tyr Leu Leu Pro Leu Cys Trp Val Leu Thr Leu Leu Asn Ser Thr Leu
    130                 135                 140

Phe Leu Gly Asn Val Glu Phe Phe Arg Val Val Ser Glu Tyr Arg Ala
145                 150                 155                 160

Ser Leu Gln Gln Arg Met Asn Pro Lys Gln Glu Glu His Ala Phe Glu
                165                 170                 175

Ser Pro Pro Pro Pro Asp Val Gly Gly Lys Asp Gly Leu Met Asp Ser
            180                 185                 190

Thr Pro Ala Leu Thr Pro Thr Glu Asp Leu Thr Pro Gly Ser Val Glu
            195                 200                 205

Glu Ala Glu Glu Ala Glu Pro Asp Glu Glu Phe Lys Asp Ala Ile Asp
    210                 215                 220

Glu Asp Asp Glu Gly Ala Pro Cys Pro Ala Leu Phe Leu
225                 230                 235
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<210> 1317
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1317
Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu
 1   5   10   15

Ala Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg
             20   25   30

Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly
         35   40   45

Ala Pro Ala Ala Pro Xaa Pro Pro Ala Leu Glu Leu Ala Xaa Gly Xaa
     50   55   60

Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly Gly
 65   70   75   80

Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Xaa
             85   90   95

His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu
             100   105   110

Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe
         115   120   125

Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu
     130   135   140

Leu Leu Pro Pro Pro Leu Ala Ser Ser Ala Arg Ser Ser Ser Thr Ile
145   150   155   160

Cys Cys Ala Asp Gly
                165

<210> 1318
<211> 159
<212> PRT
<213> Homo sapiens

<400> 1318
Ala Ser Lys Arg Met Pro Ala His His Ile Leu Thr Leu Gly Gly Cys
 1   5   10   15

Cys Thr Arg Ile Leu Leu Met Leu Thr Ser Leu Gly Val Gly Phe Arg
             20   25   30

Ile Ala Ser Leu Arg Lys Asp Phe Arg Thr Asn Trp Gly Leu His Lys

894

Lys Thr Tyr Leu Ile Ile Arg Val Leu Thr Ala Cys Ile Ser Gln Leu
    50   55   60

His Pro Arg Thr Pro Leu Ser Phe Ile Pro Pro Asn Gln Leu Gln Val
65   70   75   80

Thr Arg Leu Tyr Ser Glu Ser Lys Phe Val Ile Lys Glu Gln Arg Leu
                85   90   95

Ala Thr Thr Arg Thr Cys Arg Arg Thr Val Gly Thr Arg Lys Thr His
            100   105   110

Ser Lys Lys Pro Arg Pro Gly Thr Val Val Lys Pro Val Ile Pro Thr
        115   120   125

Leu Trp Glu Thr Glu Val Gly Val Ser Ile Glu Pro Arg Arg Ser Arg
    130   135   140

Ser Ala Trp Glu Thr Gln Gly Gly Pro His Arg Tyr Lys Ile Phe
145   150   155

<210> 1319
<211> 380
<212> PRT
<213> Homo sapiens

<400> 1319
Met Ala Arg Leu Gly Ala Val Arg Ser His Tyr Cys Ala Leu Leu Leu
  1   5   10   15

Ala Ala Ala Leu Ala Val Cys Ala Phe Tyr Tyr Leu Gly Ser Gly Arg
            20   25   30

Glu Thr Phe Ser Ser Ala Thr Lys Arg Leu Lys Glu Ala Arg Ala Gly
            35   40   45

Ala Pro Ala Ala Pro Ser Pro Pro Ala Leu Glu Leu Ala Arg Gly Ser
    50   55   60

Val Ala Pro Ala Pro Gly Ala Lys Ala Lys Ser Leu Glu Gly Gly Gly
65   70   75   80

Ala Gly Pro Val Asp Tyr His Leu Leu Met Met Phe Thr Lys Ala Glu
                85   90   95

His Asn Ala Ala Leu Gln Ala Lys Ala Arg Val Ala Leu Arg Ser Leu
            100   105   110

```
Leu Arg Leu Ala Lys Phe Glu Ala His Glu Val Leu Asn Leu His Phe
    115             120             125

Val Ser Glu Glu Ala Ser Arg Glu Val Ala Lys Gly Leu Leu Arg Glu
    130             135             140

Leu Leu Pro Pro Ala Ala Gly Phe Lys Cys Lys Val Ile Phe His Asp
145             150             155                     160

Val Ala Val Leu Thr Asp Lys Leu Phe Pro Ile Val Glu Ala Met Gln
            165             170             175

Lys His Phe Ser Ala Gly Leu Gly Thr Tyr Tyr Ser Asp Ser Ile Phe
            180             185             190

Phe Leu Ser Val Ala Met His Gln Ile Met Pro Lys Glu Ile Leu Gln
            195             200             205

Ile Ile Gln Leu Asp Leu Asp Leu Lys Phe Lys Thr Asn Ile Arg Glu
    210             215             220

Leu Phe Glu Glu Phe Asp Ser Phe Leu Pro Gly Ala Ile Ile Gly Ile
225             230             235                     240

Ala Arg Glu Met Gln Pro Val Tyr Arg His Thr Phe Trp Gln Phe Arg
            245             250             255

His Glu Asn Pro Gln Thr Arg Val Gly Gly Pro Pro Pro Glu Gly Leu
            260             265             270

Pro Gly Phe Asn Ser Gly Val Met Leu Leu Asn Leu Glu Ala Met Arg
            275             280             285

Gln Ser Pro Leu Tyr Ser Arg Leu Leu Glu Pro Ala Gln Val Gln Gln
    290             295             300

Leu Ala Asp Lys Tyr His Phe Arg Gly His Leu Gly Asp Gln Asp Phe
305             310             315                     320

Phe Thr Met Ile Gly Met Glu His Pro Lys Leu Phe His Val Leu Asp
            325             330             335

Cys Thr Trp Asn Arg Gln Leu Cys Thr Trp Trp Arg Asp His Gly Tyr
            340             345             350

Ser Asp Val Phe Glu Ala Tyr Phe Arg Cys Glu Gly His Val Lys Ile
            355             360             365

Tyr His Gly Asn Cys Asn Thr Pro Ile Pro Glu Asp
    370             375             380
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896

<210> 1320
<211> 73
<212> PRT
<213> Homo sapiens

<400> 1320
Leu Glu Ser Tyr Ser Ser Val Arg Glu Leu Leu Val Ser Val Arg Phe
 1   5   10   15

Tyr Val Val Cys Lys Val Arg Gly Ser Val Leu Phe Pro Tyr Leu Gly
            20   25   30

Lys Ser Thr Ala Gly Val Glu Gly Leu Tyr Val Pro Phe Asn Val Thr
            35   40   45

Val Leu Lys Asp Leu Ser Arg Glu Ser Glu Ser Phe Ala Glu Cys Asp
        50   55   60

Arg Arg Leu Asn Asn Leu Ile Cys Phe
65   70

<210> 1321
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1321
Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala
 1   5   10   15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
            20   25   30

Ala Ala Glu Ala Arg Pro Gly Arg Pro Thr Ser Leu Pro His Leu Pro
            35   40   45

Gly Arg Arg Arg Arg Ile Phe Ala Ile Thr Met Met Gln Thr Trp Arg
        50   55   60

Val Phe Trp Ser Asn Gly Arg Lys Met Met Thr Leu Lys Lys Glu Ile
65   70   75   80

Phe Gln Ser Thr Arg Asp Leu Gln His Leu Ser Thr Ser Gln Arg
                85   90   95

<210> 1322
<211> 234

897

<212> PRT
<213> Homo sapiens

<400> 1322
Met Ala Ala Ser Arg Trp Ala Arg Lys Ala Val Val Leu Leu Cys Ala
 1   5   10   15

Ser Asp Leu Leu Leu Leu Leu Leu Leu Leu Pro Pro Pro Gly Ser Cys
             20   25   30

Ala Ala Glu Gly Ser Pro Gly Thr Pro Asp Glu Ser Thr Pro Pro Pro
         35   40   45

Arg Lys Lys Lys Lys Asp Ile Arg Asp Tyr Asn Asp Ala Asp Met Ala
     50   55   60

Arg Leu Leu Glu Gln Trp Glu Lys Asp Asp Asp Ile Glu Glu Gly Asp
 65   70   75   80

Leu Pro Glu His Lys Arg Pro Ser Ala Pro Val Asp Phe Ser Lys Ile
             85   90   95

Asp Pro Ser Lys Pro Glu Ser Ile Leu Lys Met Thr Lys Lys Gly Lys
             100   105   110

Thr Leu Met Met Phe Val Thr Val Ser Gly Ser Pro Thr Glu Lys Glu
         115   120   125

Thr Glu Glu Ile Thr Ser Leu Trp Gln Gly Ser Leu Phe Asn Ala Asn
     130   135   140

Tyr Asp Val Gln Arg Phe Ile Val Gly Ser Asp Arg Ala Ile Phe Met
145   150   155   160

Leu Arg Asp Gly Ser Tyr Ala Trp Glu Ile Lys Asp Phe Leu Val Gly
             165   170   175

Gln Asp Arg Cys Ala Asp Val Thr Leu Glu Gly Gln Val Tyr Pro Gly
             180   185   190

Lys Gly Gly Gly Ser Lys Glu Lys Asn Lys Thr Lys Gln Asp Lys Gly
             195   200   205

Lys Lys Lys Lys Glu Gly Asp Leu Lys Ser Arg Ser Ser Lys Glu Glu
     210   215   220

Asn Arg Ala Gly Asn Lys Arg Glu Asp Leu
225   230

<210> 1323

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<211> 15
<212> PRT
<213> Homo sapiens

<400> 1323
Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Leu Phe
  1               5                  10                  15



<210> 1324
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1324
Lys Tyr Xaa Lys His Pro Ser Lys Ser Phe Glu Leu Thr Leu Val Leu
  1               5                  10                  15

Arg Lys Leu Ser Leu His Asn Gln Pro Pro Gly Lys Thr Glu Cys His
             20                  25                  30

Leu Leu Lys Ser Lys Cys Cys Val Ile Ile Thr Leu Gln Thr Lys Trp
             35                  40                  45

Arg Tyr Tyr Leu Phe Cys Lys Gln Gln Thr Lys Gln Asn Ser
     50                  55                  60



<210> 1325
<211> 15
<212> PRT
<213> Homo sapiens

<400> 1325
Asn Ala Thr Lys Ser Gln Pro Cys Leu Ser Ser Leu Leu Leu Phe
  1               5                  10                  15



<210> 1326
<211> 228
<212> PRT
<213> Homo sapiens

<220>
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<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (209)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1326
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1   5   10   15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
            20   25   30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
        35   40   45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
    50   55   60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65   70   75   80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu
            85   90   95

900

```
Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
            100                 105                 110

Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
            115                 120                 125

Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro
    130                 135                 140

Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
145                 150                 155                 160

Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala
                165                 170                 175

Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys
            180                 185                 190

Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu
        195                 200                 205

Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu
    210                 215                 220

Pro Phe Thr Asn
225




<210> 1327
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1327
Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser
 1               5                   10                  15

Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr
            20                  25                  30

Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe
        35                  40                  45

Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser
    50                  55                  60

Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu
 65                 70                  75                  80

Leu Leu Gly Ser
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<210> 1328
<211> 174
<212> PRT
<213> Homo sapiens

<400> 1328
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1               5                  10                  15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
            20                  25                  30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
            35                  40                  45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
    50                  55                  60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
65                  70                  75                  80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
                85                  90                  95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
            100                 105                 110

Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
            115                 120                 125

Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro
    130                 135                 140

Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
145                 150                 155                 160

Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro
                165                 170


<210> 1329
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1329
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
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902

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        1                   5                        10                         15
      Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
                    20                  25                  30

      Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
                    35                  40                  45

      Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
                50                  55                  60

      Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
      65                  70                  75                      80

      Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
                        85                  90                  95

      Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro
                    100                 105                 110

      Ala Gln Ser
                115



<210> 1330
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1330
      Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys
        1                   5                  10                  15

      Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu
                    20                  25                  30

      Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu
                    35                  40                  45

      Gly Ser Ser Asn Pro Xaa Thr Xaa Ala Pro Lys
                50                  55
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                                   903

<210> 1331
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1331
Met Glu Asn Gln Met Leu Thr Cys Val Ala Ile Phe Val Leu Phe Cys
 1   5   10   15

Phe Val Leu Phe Leu Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu
             20   25   30

Cys Ser Gly Met Ile Arg Ala Tyr Cys Ser Leu Thr Leu Asp Phe Leu
             35   40   45

Gly Ser Ser Asn Pro Pro Thr Ser Ala Pro Lys
         50   55

<210> 1332
<211> 100
<212> PRT
<213> Homo sapiens

<400> 1332
Gly Ser Phe Leu Ser Pro Trp Gly Pro Ile Leu Trp Gly Leu Gly Ala
 1   5   10   15

Gly Val Leu Met Gly Asp Ala Leu Gln Gly Arg Glu Gly Arg Met Gln
             20   25   30

Ala Thr Val Gly Ala Gly Pro Glu Gly Ser Glu Thr Val Ala Val Gln
             35   40   45

Val Cys Val Ile Arg Glu Ala Val Val Gly Glu Glu Val Ser Asp Cys
     50   55   60

Val Ala Pro Leu Cys Gly Val Gly Gly Gln Gly Gly Ala Ala Lys Glu
 65   70   75   80

Ala Arg Lys Met Gly Gly Gly Trp Asp Gly Leu Gly Ser His Ile His
             85   90   95

Val Leu Asp Phe
             100

904

<210> 1333
<211> 99
<212> PRT
<213> Homo sapiens

<400> 1333
Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr
1   5   10   15

Ile Ala Ala Ala Leu Ser Val Gln Ser Pro Phe Thr Arg Ser Ala Gln
                20   25   30

Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln
            35   40   45

Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val
        50   55   60

Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly
65   70   75   80

Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Phe Gly Ala Ser Ser
                85   90   95

Arg Thr Val

<210> 1334
<211> 163
<212> PRT
<213> Homo sapiens

<400> 1334
Ala Leu Ala Arg Ala Ser Arg Thr Asp Asp Leu His Pro Leu Ala Leu
1   5   10   15

Ala Gly Ala Thr His Arg Pro Cys Pro Glu Asp Gln Glu Pro Lys Ala
                20   25   30

Gly Arg Ala Trp Ser Ala Thr Ser Phe Cys Leu Pro Val Pro Cys Gly
            35   40   45

Val Ser Val Leu Leu Ser Leu Ser Leu Phe Leu Ser Leu Cys Gly Tyr
        50   55   60

Val Ser Cys Tyr Phe Ser Leu Ser Cys Ser Tyr Leu Cys Leu Gly His
65   70   75   80

Leu His Pro Val Val Thr Gln Gly Cys His Thr Leu Gly Phe Ser Gly
                85   90   95

905

```
Gly Asp Ser Thr Gly Ala Thr Cys Leu His Pro Arg Leu Ala Val Ser
            100                 105                 110

Ala Cys Gln Ser Pro Cys Leu Ser Leu Cys Leu Ser Leu Cys Leu Ser
            115                 120                 125

His Trp Gln Gly Cys Gly Val Lys Thr Asp Leu Cys Ile Phe Ile Asn
    130                 135                 140

Leu Gly Gly Leu Pro Gly Gly Gly Lys Thr Gly Phe Ser Lys Gly Gln
145                 150                 155                 160

Glu Arg Thr




<210> 1335
<211> 552
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1335
Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr
  1             5                 10                  15

Ile Ala Ala Ala Leu Ser Val Gln Ser Pro Phe Thr Arg Ser Ala Gln
             20                  25                  30

Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln
            35                  40                  45

Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val
    50                  55                  60

Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly
65                  70                  75                  80

Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Leu Arg Arg Gln Phe
                85                  90                  95

Lys Glu Leu Leu Glu Asp His Gly Leu Leu Ala Gly Ala Gln Ala Ala
            100                 105                 110

Gln Val Gly Asp Ser Tyr Ser Arg Leu Gln Gln Arg Arg Glu Arg Arg
            115                 120                 125
```

```
Ala Leu His Gln Leu Lys Arg Gln His Glu Glu Gly Ala Xaa Cys Arg
    130             135             140

Arg Lys Val Leu Arg Leu Gln Glu Glu Gln Asp Gly Gly Ser Ser Asp
145             150             155             160

Glu Asp Arg Ala Gly Pro Ala Pro Pro Gly Ala Ser Asp Gly Val Asp
                165             170             175

Ile Gln Asp Val Lys Phe Lys Leu Arg His Asp Leu Ala Gln Leu Gln
                180             185             190

Ala Ala Ala Ser Ser Ala Gln Asp Leu Ser Arg Glu Gln Leu Ala Leu  .
        195             200             205

Leu Lys Leu Val Leu Gly Arg Gly Leu Tyr Pro Gln Leu Ala Val Pro
    210             215             220

Asp Ala Phe Asn Ser Ser Arg Lys Asp Ser Asp Gln Ile Phe His Thr
225             230             235             240

Gln Ala Lys Gln Gly Ala Val Leu His Pro Thr Cys Val Phe Ala Gly
            245             250             255

Ser Pro Glu Val Leu His Ala Gln Glu Leu Glu Ala Ser Asn Cys Asp
            260             265             270

Gly Ser Arg Asp Asp Lys Asp Lys Met Ser Ser Lys His Gln Leu Leu
        275             280             285

Ser Phe Val Ser Leu Leu Glu Thr Asn Lys Pro Tyr Leu Val Asn Cys
    290             295             300

Val Arg Ile Pro Ala Leu Gln Ser Leu Leu Leu Phe Ser Arg Ser Leu
305             310             315             320

Asp Thr Asn Gly Asp Cys Ser Arg Leu Val Ala Asp Gly Trp Leu Glu
            325             330             335

Leu Gln Leu Ala Asp Ser Glu Ser Ala Ile Arg Leu Leu Ala Ala Ser
        340             345             350

Leu Arg Leu Arg Ala Arg Trp Glu Ser Ala Leu Asp Arg Gln Leu Ala
    355             360             365

His Gln Ala Gln Gln Gln Leu Glu Glu Glu Glu Asp Thr Pro Val
    370             375             380

Ser Pro Lys Glu Val Ala Thr Leu Ser Lys Glu Leu Leu Gln Phe Thr
385             390             395             400
```

907

```
Ala Ser Lys Ile Pro Tyr Ser Leu Arg Arg Leu Thr Gly Leu Glu Val
                405             410                 415

Gln Asn Met Tyr Val Gly Pro Gln Thr Ile Pro Ala Thr Pro His Leu
                420             425             430

Pro Gly Leu Phe Gly Ser Ser Thr Leu Ser Pro His Pro Thr Lys Gly
            435             440             445

Gly Tyr Ala Val Thr Asp Phe Leu Thr Tyr Asn Cys Leu Thr Asn Asp
    450             455             460

Thr Asp Leu Tyr Ser Asp Cys Leu Arg Thr Phe Trp Thr Cys Pro His
465             470             475                 480

Cys Gly Leu His Ala Pro Leu Thr Pro Leu Glu Arg Ile Ala His Glu
            485             490             495

Asn Thr Cys Pro Gln Ala Pro Gln Asp Gly Pro Pro Gly Ala Glu Glu
            500             505             510

Ala Ala Leu Glu Thr Leu Gln Lys Thr Ser Val Leu Gln Arg Pro Tyr
            515             520             525

His Cys Glu Ala Cys Gly Lys Asp Phe Leu Phe Thr Pro Thr Glu Val
    530             535             540

Leu Arg His Arg Lys Gln His Val
545                 550


<210> 1336
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1336
Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg
  1             5               10                  15

Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser
                20              25              30

Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu
            35              40              45

Thr Ser Leu Ala Leu Phe Trp Leu Thr Thr Leu Val Pro Ser Ile Thr
        50              55              60

Asn Ile Thr Arg Val Phe Thr Thr Leu Leu Arg Thr Leu Met
 65             70              75
```

<210> 1337
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1337
Met Ser Leu Tyr Gly Thr Arg Trp Arg Ile Ser Trp Pro His Trp Arg
1   5   10   15

Arg Val Val Leu Val Ser Leu Leu Ser Ser Ser Gly Gly Gln Ile Ser
            20   25   30

Pro Ser Leu Ser His His Leu Pro Cys Ser Asp Phe Phe Glu Leu Glu
        35   40   45

Thr Ser Leu Ala Leu Phe Trp Leu Thr Thr Leu Val Pro Ser Ile Thr
    50   55   60

Asn Ile Thr Arg Val Phe Thr Thr Leu Leu Arg Thr Leu Met
65   70   75

<210> 1338
<211> 159
<212> PRT
<213> Homo sapiens

<400> 1338
Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp
1   5   10   15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala
            20   25   30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu
        35   40   45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr
    50   55   60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr
65   70   75   80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr
                85   90   95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr
            100   105   110

909

```
Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln
        115                 120                 125

Thr Ile Thr Gly Ser Asp Pro Arg Lys Pro Ser Leu Thr Pro Phe Ala
        130                 135                 140

Pro Met Thr Ala Leu Lys Arg Gln Arg His Ser Gln Trp Thr Tyr
145                 150                 155
```

<210> 1339
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1339
```
Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp
 1               5                 10                  15

Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala
             20                 25                  30

Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu
        35                  40                  45

Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr
    50                  55                  60

Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr
 65                 70                  75                  80

Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr
                 85                  90                  95

Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr
```

910

```
                100                      105                      110

    Ser Xaa Ala Ser Gly Ser Pro Glu Gly Ala Xaa Met Thr Thr Val Gln
            115             120             125

    Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Xaa
            130             135             140

    Thr Asp Asp Ser Ser
    145




    <210> 1340
    <211> 595
    <212> PRT
    <213> Homo sapiens


    <400> 1340
    Met Gly Cys Leu Trp Gly Leu Ala Leu Pro Leu Phe Phe Phe Cys Trp
      1  ·             5               10              15

    Glu Val Gly Val Ser Gly Ser Ser Ala Gly Pro Ser Thr Arg Arg Ala
                    20              25              30

    Asp Thr Ala Met Thr Thr Asp Asp Thr Glu Val Pro Ala Met Thr Leu
            35              40              45

    Ala Pro Gly His Ala Ala Leu Glu Thr Gln Thr Leu Ser Ala Glu Thr
        50              55              60

    Ser Ser Arg Ala Ser Thr Pro Ala Gly Pro Ile Pro Glu Ala Glu Thr
     65              ·70                 75                      80

    Arg Gly Ala Lys Arg Ile Ser Pro Ala Arg Glu Thr Arg Ser Phe Thr
                85              90                      95

    Lys Thr Ser Pro Asn Phe Met Val Leu Ile Ala Thr Ser Val Glu Thr
                100             105             110

    Ser Ala Ala Ser Gly Ser Pro Glu Gly Ala Arg Met Thr Thr Val Gln
            115             120             125

    Thr Ile Thr Gly Ser Asp Pro Arg Glu Ala Ile Phe Asp Thr Leu Cys
            130             135             140

    Thr Asp Asp Ser Ser Glu Glu Ala Lys Thr Leu Thr Met Asp Ile Leu
    145             150             155             160

    Thr Leu Ala His Thr Ser Thr Glu Ala Lys Gly Leu Ser Ser Glu Ser
                165             170             175
```

Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala
        180   185   190

Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro
        195   200   205

Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro His Pro Val
    210   215   220

Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser Asp Gly Pro
225   230   235   240

His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser Ala Ser Ser
            245   250   255

Asp Gly Pro His Pro Val Ile Thr Pro Ser Arg Ala Ser Glu Ser Ser
        260   265   270

Ala Ser Ser Asp Gly Pro His Pro Val Ile Thr Pro Ser Trp Ser Pro
    275   280   285

Gly Ser Asp Val Thr Leu Leu Ala Glu Ala Leu Val Ser Val Thr Asn
    290   295   300

Ile Glu Val Ile Asn Cys Ser Ile Thr Glu Ile Glu Thr Thr Thr Ser
305   310   315   320

Ser Ile Pro Gly Ala Ser Asp Thr Asp Leu Ile Pro Thr Glu Gly Val
            325   330   335

Lys Ala Ser Ser Thr Ser Asp Pro Pro Ala Leu Pro Asp Ser Thr Glu
            340   345   350

Ala Lys Pro His Ile Thr Glu Val Thr Ala Ser Ala Glu Thr Leu Ser
        355   360   365

Thr Ala Gly Thr Thr Glu Ser Ala Ala Pro Asp Ala Thr Val Gly Thr
    370   375   380

Pro Leu Pro Thr Asn Ser Ala Thr Glu Arg Glu Val Thr Ala Pro Gly
385   390   395   400

Ala Thr Thr Leu Ser Gly Ala Leu Val Thr Val Ser Arg Asn Pro Leu
            405   410   415

Glu Glu Thr Ser Ala Leu Ser Val Glu Thr Pro Ser Tyr Val Lys Val
            420   425   430

Ser Gly Ala Ala Pro Val Ser Ile Glu Ala Gly Ser Ala Val Gly Lys
        435   440   445

Thr Thr Ser Phe Ala Gly Ser Ser Ala Ser Ser Tyr Ser Pro Ser Glu

912

Ala Ala Leu Lys Asn Phe Thr Pro Ser Glu Thr Pro Thr Met Asp Ile
465   470   475   480

Ala Thr Lys Gly Pro Phe Pro Thr Ser Arg Asp Pro Leu Pro Ser Val
            485   490   495

Pro Pro Thr Thr Thr Asn Ser Ser Arg Gly Thr Asn Ser Thr Leu Ala
            500   505   510

Lys Ile Thr Thr Ser Ala Lys Thr Thr Met Lys Pro Pro Thr Ala Thr
        515   520   525

Pro Thr Thr Ala Arg Thr Arg Pro Thr Thr Asp Val Ser Ala Gly Glu
    530   535   540

Asn Gly Gly Phe Leu Leu Leu Arg Leu Ser Val Ala Ser Pro Glu Asp
545   550   555   560

Leu Thr Asp Pro Arg Val Ala Glu Arg Leu Met Gln Gln Leu His Arg
            565   570   575

Glu Leu His Ala His Ala Pro His Phe Gln Val Ser Leu Leu Arg Val
        580   585   590

Arg Arg Gly
        595

<210> 1341
<211> 114
<212> PRT
<213> Homo sapiens

<400> 1341
Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser
  1   5   10   15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu
            20   25   30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu
        35   40   45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg
    50   55   60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser
 65   70   75   80

913

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly
                85   90   95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
            100   105   110

Thr Glu

<210> 1342
<211> 114
<212> PRT
<213> Homo sapiens

<400> 1342
Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser
 1   5   10   15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu
                20   25   30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu
            35   40   45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg
    50   55   60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser
 65   70   75   80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly
                85   90   95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
            100   105   110

Thr Glu

<210> 1343
<211> 114
<212> PRT
<213> Homo sapiens

<400> 1343
Met Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser
 1   5   10   15

Leu Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu
            20   25   30

His Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu
            35   40   45

Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg
    50   55   60

Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser
65   70   75   80

Leu Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly
                85   90   95

Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His
            100   105   110

Thr Glu

<210> 1344
<211> 465
<212> PRT
<213> Homo sapiens

<400> 1344
Met Glu Glu Glu Asp Glu Glu Ala Arg Ala Leu Leu Ala Gly Gly Pro
 1   5   10   15

Asp Glu Ala Asp Arg Gly Ala Pro Ala Ala Pro Gly Ala Leu Pro Ala
            20   25   30

Leu Cys Asp Pro Ser Arg Leu Ala His Arg Leu Leu Val Leu Leu Leu
            35   40   45

Met Cys Phe Leu Gly Phe Gly Ser Tyr Phe Cys Tyr Asp Asn Pro Ala
    50   55   60

Ala Leu Gln Thr Gln Val Lys Arg Asp Met Gln Val Asn Thr Thr Lys
65   70   75   80

Phe Met Leu Leu Tyr Ala Trp Tyr Ser Trp Pro Asn Val Val Leu Cys
                85   90   95

Phe Phe Gly Gly Phe Leu Ile Asp Arg Val Phe Gly Ile Arg Trp Gly
            100   105   110

Thr Ile Ile Phe Ser Cys Phe Val Cys Ile Gly Gln Val Val Phe Ala
            115   120   125

915

```
Leu Gly Gly Ile Phe Asn Ala Phe Trp Leu Met Glu Phe Gly Arg Phe
    130             135         140

Val Phe Gly Ile Gly Gly Glu Ser Leu Ala Val Ala Gln Asn Thr Tyr
145             150         155             160

Ala Val Ser Trp Phe Lys Gly Lys Glu Leu Asn Leu Val Phe Gly Leu
            165   .           170         175

Gln Leu Ser Met Ala Arg Ile Gly Ser Thr Val Asn Met Asn Leu Met
        180             185         190

Gly Trp Leu Tyr Ser Lys Ile Glu Ala Leu Leu Gly Ser Ala Gly His
    195         200             205

Thr Thr Leu Gly Ile Thr Leu Met Ile Gly Gly Ile Thr Cys Ile Leu
    210             215             220

Ser Leu Ile Cys Ala Leu Ala Leu Ala Tyr Leu Asp Gln Arg Ala Glu
225             230             235           .   240

Arg Ile Leu His Lys Glu Gln Gly Lys Thr Gly Glu Val Ile Lys Leu
            245             250             255

Thr Asp Val Lys Asp Phe Ser Leu Pro Leu Trp Leu Ile Phe Ile Ile
            260             265             270

Cys Val Cys Tyr Tyr Val Ala Val Phe Pro Phe Ile Gly Leu Gly Lys
        275             280             285

Val Phe Phe Thr Glu Lys Phe Gly Phe Ser Ser Gln Ala Ala Ser Ala
    290           .   295             300

Ile Asn Ser Val Val Tyr Val Ile Ser Ala Pro Met Ser Pro Val Phe
305             310             315             320

Gly Leu Leu Val Asp Lys Thr Gly Lys Asn Ile Ile Trp Val Leu Cys
            325             330             335

Ala Val Ala Ala Thr Leu Val Ser His Met Met Leu Ala Phe Thr Met
            340             345             350

Trp Asn Pro Trp Ile Ala Met Cys Leu Leu Gly Leu Ser Tyr Ser Leu
        355             360             365

Leu Ala Cys Ala Leu Trp Pro Met Val Ala Phe Val Val Pro Glu His
    370             375             380

Gln Leu Gly Thr Ala Tyr Gly Phe Met Gln Ser Ile Gln Asn Leu Gly
385             390             395             400

                              916
```

Leu Ala Ile Ile Ser Ile Ile Ala Gly Met Ile Leu Asp Ser Arg Gly
                405   410   415

Tyr Leu Phe Leu Glu Val Phe Phe Ile Ala Cys Val Ser Leu Ser Leu
                420   425   430

Leu Ser Val Val Leu Leu Tyr Leu Val Asn Arg Ala Gln Gly Gly Asn
                435   440   445

Leu Asn Tyr Ser Ala Arg Gln Arg Glu Glu Ile Lys Phe Ser His Thr
    450   455   460

Glu
465

<210> 1345
<211> 83
<212> PRT
<213> Homo sapiens

<400> 1345
Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val Ser His
  1   5   10   15

Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro Val Ala
                20   25   30

Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr Gly Asn
                35   40   45

Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu Cys Leu
        50   55   60

Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly Gly Ile
 65   70   75   80

Ile Trp Leu

<210> 1346
<211> 73
<212> PRT
<213> Homo sapiens

<400> 1346
Met Ser Leu Val Ser His Leu Leu Arg Thr Phe Phe Leu Val Trp Phe
  1   5   10   15

Val Gly Leu Pro Val Ala Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala
            20   25   30

Asn Val Phe Thr Gly Asn Gly Gly Gly Pro Glu Pro Trp Gly Gly His
            35   40   45

Leu Val Ser Glu Cys Leu Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu
        50   55   60

Ala Leu Ser Gly Gly Ile Ile Trp Leu
65   70

<210> 1347
<211> 83
<212> PRT
<213> Homo sapiens

<400> 1347
Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val Ser His
 1   5   10   15

Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro Val Ala
            20   25   30

Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr Gly Asn
            35   40   45

Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu Cys Leu
        50   55   60

Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly Gly Ile
65   70   75   80

Ile Trp Leu

<210> 1348
<211> 111
<212> PRT
<213> Homo sapiens

<400> 1348
Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser
 1   5   10   15

Val Leu Arg Ser Met Leu Ser Lys Val Val Arg Ser Thr Glu Gln Gly
            20   25   30

918

Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr
        35   40   45

Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr
    50   55   60

Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Leu Pro Ala
65   70   75   80

Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr
                85   90   95

Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg
            100   105   110

<210> 1349
<211> 111
<212> PRT
<213> Homo sapiens

<400> 1349
Met Phe Leu Ala Arg Val Pro Phe Leu Phe Thr Ile Val Pro Phe Ser
  1   5   10   15

Val Leu Arg Ser Met Leu Ser Lys Val Val Arg Ser Thr Glu Gln Gly
            20   25   30

Thr Leu Phe Ala Cys Ile Ala Phe Leu Glu Thr Leu Gly Gly Val Thr
        35   40   45

Ala Val Ser Thr Phe Asn Gly Ile Tyr Ser Ala Thr Val Ala Trp Tyr
    50   55   60

Pro Gly Phe Thr Phe Leu Leu Ser Ala Gly Leu Leu Leu Leu Pro Ala
65   70   75   80

Ile Ser Leu Cys Val Val Lys Cys Thr Ser Trp Asn Glu Gly Ser Tyr
                85   90   95

Glu Leu Leu Ile Gln Glu Glu Ser Ser Glu Asp Ala Ser Asp Arg
            100   105   110

<210> 1350
<211> 230
<212> PRT
<213> Homo sapiens

<400> 1350

919

```
Met Ser Cys Ser Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met
  1               5                   10                  15

Leu Phe Lys Asn Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu
              20                  25                  30

Leu Phe Thr Val Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro
          35                  40                  45

Ile Phe Ile Leu Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val
      50                  55                  60

Phe Ile Gly Tyr Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser
65                  70                  75                  80

Phe Leu Gly Ile Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met
              85                  90                  95

Ala Phe Ile Gly Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala
          100                 105                 110

Phe Ala Ser Thr Thr Leu Met Met Phe Leu Ala Arg Val Pro Phe Leu
          115                 120                 125

Phe Thr Ile Val Pro Phe Ser Val Leu Arg Ser Met Leu Ser Lys Val
    130                 135                 140

Val Arg Ser Thr Glu Gln Gly Thr Leu Phe Ala Cys Ile Ala Phe Leu
145                 150                 155                 160

Glu Thr Leu Gly Gly Val Thr Ala Val Ser Thr Phe Asn Gly Ile Tyr
              165                 170                 175

Ser Ala Thr Val Ala Trp Tyr Pro Gly Phe Thr Phe Leu Leu Ser Ala
          180                 185                 190

Gly Leu Leu Leu Leu Pro Ala Ile Ser Leu Cys Val Val Lys Cys Thr
          195                 200                 205

Ser Trp Asn Glu Gly Ser Tyr Glu Leu Leu Ile Gln Glu Glu Ser Ser
    210                 215                 220

Glu Asp Ala Ser Asp Arg
225                 230


<210> 1351
<211> 137
<212> PRT
<213> Homo sapiens
```

920

```
<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1351
Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys
 1               5                   10                  15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser
            20                  25                  30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys
        35                  40                  45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu
    50                  55                  60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu
65                  70                  75                  80

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
                85                  90                  95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Asp Val Xaa Val
            100                 105                 110

Glu Glu Glu Xaa Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu
        115                 120                 125

Arg Leu Ala Thr Gly Phe Phe His Pro
    130                 135




<210> 1352
<211> 124
<212> PRT
<213> Homo sapiens

<400> 1352
Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys
```

921

```
Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser
            20                  25                  30

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys
            35                  40                  45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu
        50                  55                  60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu
65                  70              75                      80

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
                85                  90                  95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Ser Gly Cys Gln
            100                 105                 110

Ser Leu Val Ala Gly Gln Gly His His Asn His Lys
        115                 120
```

<210> 1353
<211> 145
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1353
```
Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu Lys
  1               5                  10                  15

Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Ile Leu Ser
            20                  25                  30
```

Ile Gly Leu Ala Ala Ala Tyr Tyr Ser Gly Asp Ser Leu Gly Trp Lys
        35   40   45

Leu Phe Tyr Val Thr Gly Cys Leu Phe Val Ala Val Gln Asn Leu Glu
        50   55   60

Asp Trp Glu Glu Ala Ile Phe Asp Lys Ser Thr Gly Lys Val Val Leu
65   70   75   80

Lys Thr Phe Ser Leu Tyr Lys Lys Leu Leu Thr Leu Phe Arg Ala Gly
                85   90   95

His Asp Gln Val Val Val Leu Leu His Asp Val Arg Asp Val Ser Val
            100   105   110

Glu Glu Glu Lys Val Arg Tyr Phe Gly Lys Xaa Tyr Met Val Val Leu
        115   120   125

Arg Leu Ala Thr Gly Phe Xaa His Xaa Leu Thr Gln Ser Ala Asp Met
    130   135   140

Gly
145

<210> 1354
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1354
Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
  1   5   10   15

Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr
            20   25   30

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
        35   40   45

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly

```
            50                    55                      60

     Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp
      65                  70                  75                  80

     Arg Ala Val Val Val Gln Met Ala Gln
                     85




     <210> 1355
     <211> 89
     <212> PRT
     <213> Homo sapiens


     <400> 1355
     Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
      1               5                  10                  15

     Leu Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr
                     20                  25                  30

     Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
                 35                  40                  45

     Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
             50                  55                  60

     Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
      65                  70                  75                  80

     Arg Ala Val Val Val Gln Met Ala Gln
                     85




     <210> 1356
     <211> 419
     <212> PRT
     <213> Homo sapiens


     <400> 1356
     Met Asn Asn Gln Lys Gln Gln Lys Pro Thr Leu Ser Gly Gln Arg Phe
      1               5                  10                  15

     Lys Thr Arg Lys Arg Asp Glu Lys Glu Arg Phe Asp Pro Thr Gln Phe
                     20                  25                  30

     Gln Asp Cys Ile Ile Gln Gly Leu Thr Glu Thr Gly Thr Asp Leu Glu
                 35                  40                  45

     Ala Val Ala Lys Phe Leu Asp Ala Ser Gly Ala Lys Leu Asp Tyr Arg
```

924

```
         50                     55                     60

Arg Tyr Ala Glu Thr Leu Phe Asp Ile Leu Val Ala Gly Gly Met Leu
 65              70              75              80

Ala Pro Gly Gly Thr Leu Ala Asp Asp Met Met Arg Thr Asp Val Cys
     .           85              90              95

Val Phe Ala Ala Gln Glu Asp Leu Glu Thr Met Gln Ala Phe Ala Gln
            100             105             110          .

Val Phe Asn Lys Leu Ile Arg Arg Tyr Lys Tyr Leu Glu Lys Gly Phe
            115             120             125

Glu Asp Glu Val Lys Lys Leu Leu Leu Phe Leu Lys Gly Phe Ser Glu
     130             135             140

Ser Glu Arg Asn Lys Leu Ala Met Leu Thr Gly Val Leu Leu Ala Asn
145             150             155             160

Gly Thr Leu Asn Ala Ser Ile Leu Asn Ser Leu Tyr Asn Glu Asn Leu
            165             170             175

Val Lys Glu Gly Val Ser Ala Ala Phe Ala Val Lys Leu Phe Lys Ser
            180             185             190

Trp Ile Asn Glu Lys Asp Ile Asn Ala Val Ala Ala Ser Leu Arg Lys
            195             200             205

Val Ser Met Asp Asn Arg Leu Met Glu Leu Phe Pro Ala Asn Lys Gln
     210             215             220

Ser Val Glu His Phe Thr Lys Tyr Phe Thr Glu Ala Gly Leu Lys Glu
225             230             235             240

Leu Ser Glu Tyr Val Arg Asn Gln Gln Thr Ile Gly Ala Arg Lys Glu
            245             250             255

Leu Gln Lys Glu Leu Gln Glu Gln Met Ser Arg Gly Asp Pro Phe Lys
            260             265             270

Asp Ile Ile Leu Tyr Val Lys Glu Glu Met Lys Lys Asn Asn Ile Pro
            275             280             285

Glu Pro Val Val Ile Gly Ile Val Trp Ser Ser Val Met Ser Thr Val
     290             295             300

Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu Gln Ala Ile Lys His
305             310             315             320

Leu Lys Gln Tyr Ser Pro Leu Leu Ala Ala Phe Thr Thr Gln Gly Gln
            325             330             335

                            925
```

Ser Glu Leu Thr Leu Leu Leu Lys Ile Gln Glu Tyr Cys Tyr Asp Asn
              340   345   350

Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr Lys
         355   360   365

Ala Glu Val Leu Ser Glu Glu Pro Ile Leu Lys Trp Tyr Lys Asp Ala
    370   375   380

His Val Ala Lys Gly Lys Ser Val Phe Leu Glu Gln Met Lys Lys Phe
385   390   395   400

Val Glu Trp Leu Lys Asn Ala Glu Glu Glu Ser Glu Ser Glu Ala Glu
              405   410   415

Glu Gly Asp

<210> 1357
<211> 19
<212> PRT
<213> Homo sapiens

<400> 1357
Thr Ile Ala Cys Met Leu Thr Phe Cys Phe Val Leu Phe Cys Phe Val
 1   5   10   15

Leu His Phe

<210> 1358
<211> 857
<212> PRT
<213> Homo sapiens

<400> 1358
Met Ser Tyr Tyr Met Ala Asp Arg Lys His Arg Lys Ala Phe Leu Glu
 1   5   10   15

Ala Arg Gln Ser Leu Glu Val Lys Met Asn Leu Glu Glu Gln Ser Gln
              20   25   30

Gln Gln Glu Asn Leu Met Leu Ser Ile Leu Pro Lys His Val Ala Asp
         35   40   45

Glu Met Leu Lys Asp Met Lys Lys Asp Glu Ser Gln Lys Asp Gln Gln
    50   55   60

926

```
Gln Phe Asn Thr Met Tyr Met Tyr Arg His Glu Asn Val Ser Ile Leu
 65              70              75                          80

Phe Ala Asp Ile Val Gly Phe Thr Gln Leu Ser Ser Ala Cys Ser Ala
             85              90                          95

Gln Glu Leu Val Lys Leu Leu Asn Glu Leu Phe Ala Arg Phe Asp Lys
             100             105             110

Leu Ala Ala Lys Tyr His Gln Leu Arg Ile Lys Ile Leu Gly Asp Cys
             115             120             125

Tyr Tyr Cys Ile Cys Gly Leu Pro Asp Tyr Arg Glu Asp His Ala Val
     130             135             140

Cys Ser Ile Leu Met Gly Leu Ala Met Val Glu Ala Ile Ser Tyr Val
145             150             155             160

Arg Glu Lys Thr Lys Thr Gly Val Asp Met Arg Val Gly Val His Thr
                 165             170             175

Gly Thr Val Leu Gly Gly Val Leu Gly Gln Lys Arg Trp Gln Tyr Asp
             180             185             190

Val Trp Ser Thr Asp Val Thr Val Ala Asn Lys Met Glu Ala Gly Gly
         195             200             205

Ile Pro Gly Arg Val His Ile Ser Gln Ser Thr Met Asp Cys Leu Lys
     210             215             220

Gly Glu Phe Asp Val Glu Pro Gly Asp Gly Gly Ser Arg Cys Asp Tyr
225             230             235             240

Leu Glu Glu Lys Gly Ile Glu Thr Tyr Leu Ile Ile Ala Ser Lys Pro
             245             250             255

Glu Val Lys Lys Thr Ala Thr Gln Asn Gly Leu Asn Gly Ser Ala Leu
             260             265             270

Pro Asn Gly Ala Pro Ala Ser Ser Lys Ser Ser Ser Pro Ala Leu Ile
             275             280             285

Glu Thr Lys Glu Pro Asn Gly Ser Ala His Ser Ser Gly Ser Thr Ser
     290             295             300

Glu Lys Pro Glu Glu Gln Asp Ala Gln Ala Asp Asn Pro Ser Phe Pro
205             310             315             320

Asn Pro Arg Arg Arg Leu Arg Leu Gln Asp Leu Ala Asp Arg Val Val
                 325             330             335
```

927

Asp Ala Ser Glu Asp Glu His Glu Leu Asn Gln Leu Leu Asn Glu Ala
            340   345   350

Leu Leu Glu Arg Glu Ser Ala Gln Val Val Lys Lys Arg Asn Thr Phe
            355   360   365

Leu Leu Ser Met Arg Phe Met Asp Pro Glu Met Glu Thr Arg Tyr Ser
    370   375   380

Val Glu Lys Glu Lys Gln Ser Gly Ala Ala Phe Ser Cys Ser Cys Val
385   390   395   400

Val Leu Leu Cys Thr Ala Leu Val Glu Ile Leu Ile Asp Pro Trp Leu
            405   410   415

Met Thr Asn Tyr Val Thr Phe Met Val Gly Glu Ile Leu Leu Leu Ile
            420   425   430

Leu Thr Ile Cys Ser Leu Ala Ala Ile Phe Pro Arg Ala Phe Pro Lys
            435   440   445

Lys Leu Val Ala Phe Ser Thr Trp Ile Asp Arg Thr Arg Trp Ala Arg
    450   455   460

Asn Thr Trp Ala Met Leu Ala Ile Phe Ile Leu Val Met Ala Asn Val
465   470   475   480

Val Asp Met Val Ser His Met Val Lys Leu Thr Leu Met Leu Leu Val
            485   490   495

Ala Gly Ala Val Ala Thr Ile Asn Leu Tyr Ala Trp Arg Pro Val Phe
            500   505   510

Asp Glu Tyr Asp His Lys Arg Phe Arg Glu His Asp Leu Pro Met Val
            515   520   525

Ala Leu Glu Gln Met Gln Gly Phe Asn Pro Gly Leu Asn Gly Thr Asp
    530   535   540

Arg Leu Pro Leu Val Pro Ser Lys Tyr Ser Met Thr Val Met Val Phe
545   550   555   560

Leu Met Met Leu Ser Phe Tyr Tyr Phe Ser Arg His Val Glu Lys Leu
            565   570   575

Ala Arg Thr Leu Phe Leu Trp Lys Ile Glu Val His Asp Gln Lys Glu
            580   585   590

Arg Val Tyr Glu Met Arg Arg Trp Asn Glu Ala Leu Val Thr Asn Met
            595   600   605

Leu Pro Glu His Val Ala Arg His Phe Leu Gly Ser Lys Lys Arg Asp

928

```
        610                    615                    620

Glu Glu Leu Tyr Ser Gln Thr Tyr Asp Glu Ile Gly Val Met Phe Ala
625                 630                 635                 640

Ser Leu Pro Asn Phe Ala Asp Phe Tyr Thr Glu Glu Ser Ile Asn Asn
                645                 650                 655

Gly Gly Ile Glu Cys Leu Arg Phe Leu Asn Glu Ile Ile Ser Asp Phe
                660                 665                 670

Asp Ser Leu Leu Asp Asn Pro Lys Phe Arg Val Ile Thr Lys Ile Lys
            675                 680                 685

Thr Ile Gly Ser Thr Tyr Met Ala Ala Ser Gly Val Thr Pro Asp Val
            690                 695                 700

Asn Thr Asn Gly Phe Ala Ser Ser Asn Lys Glu Asp Lys Ser Glu Arg
705                 710                 715                 720

Glu Arg Trp Gln His Leu Ala Asp Leu Ala Asp Phe Ala Leu Ala Met
                725                 730                 735

Lys Asp Thr Leu Thr Asn Ile Asn Asn Gln Ser Phe Asn Asn Phe Met
            740                 745                 750

Leu Arg Ile Gly Met Asn Lys Gly Gly Val Leu Ala Gly Val Ile Gly
            755                 760                 765

Ala Arg Lys Pro His Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala
        770                 775                 780

Ser Arg Met Glu Ser Thr Gly Val Met Gly Asn Ile Gln Val Val Glu
785                 790                 795                 800

Glu Thr Gln Val Ile Leu Arg Glu Tyr Gly Phe Arg Phe Val Arg Arg
                805                 810                 815

Gly Pro Ile Phe Val Lys Gly Lys Gly Glu Leu Leu Thr Phe Phe Leu
            820                 825                 830

Lys Gly Arg Asp Lys Leu Ala Thr Phe Pro Asn Gly Pro Ser Val Thr
            835                 840                 845

Leu Pro His Gln Val Val Asp Asn Ser
    850                 855
```

<210> 1359
<211> 188
<212> PRT

929

<213> Homo sapiens

<400> 1359
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1   5   10   15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
                20   25   30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
            35   40   45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
        50   55   60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
 65   70   75   80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
                85   90   95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
            100   105   110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
            115   120   125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
        130   135   140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145   150   155   160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
                165   170   175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
                180   185

<210> 1360
<211> 188
<212> PRT
<213> Homo sapiens

<400> 1360
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1   5   10   15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
                20   25   30

930

```
Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
        35              40              45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
        50              55              60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
65              70              75              80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
                85              90              95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
            100             105             110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
            115             120             125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
        130             135             140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145             150             155             160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
            165             170             175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
        180             185
```

```
<210> 1361
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1361
Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu
  1               5               10              15
```

```
Gly Phe Val Tyr Phe Pro Cys Phe Thr Phe Pro Xaa Val Gln Ala Val
            20                  25              30

Val Glu Thr Gly Thr Gln Gly Leu Cys Val Ala Pro Cys Ser Ser Cys
            35                  40              45

Leu Gln Glu Ala Cys Gly Ala Leu Val Ser Leu Ala Ser Cys Pro Pro
        50                  55                  60

Phe Leu Leu Pro Pro Leu Thr Leu Pro Pro Thr Leu Ser Leu Arg Thr
65                  70                  75                  80

Ser Ser Trp Lys Gly Leu Ala Arg Ala Xaa Val Leu Ala Ser Leu Trp
                85                  90                  95

Gly Gly Arg Leu Cys Gly Leu Lys Gly Cys Arg Leu Lys Leu Gln Gly
                100                 105                 110

Val Gly Ala Trp
            115


<210> 1362
<211> 167
<212> PRT
<213> Homo sapiens

<400> 1362
Met Arg Lys Ile His Thr Pro Leu Phe Asn Leu Leu Gln Val Arg Leu
  1               5                   10                  15

Gly Phe Val Tyr Phe Pro Cys Phe Thr Phe Pro Cys Val Gln Ala Val
            20                  25              30

Val Glu Thr Gly Thr Gln Gly Leu Cys Val Ala Pro Cys Ser Ser Cys
            35                  40              45

Leu Gln Glu Ala Cys Gly Ala Leu Val Ser Leu Ala Ser Cys Pro Pro
        50                  55                  60

Phe Leu Leu Pro Pro Leu Thr Leu Pro Pro Thr Leu Ser Leu Arg Thr
65                  70                  75                  80

Ser Ser Trp Lys Gly Leu Ala Arg Ala Cys Val Leu Ala Ser Leu Trp
                85                  90                  95

Gly Gly Arg Leu Cys Gly Leu Lys Gly Cys Arg Leu Lys Leu Gln Gly
                100                 105                 110

Val Gly Ala Trp Glu Gly Met Cys Thr Ala Leu Leu Thr Asp Pro Phe
            115                 120                 125
```

932

```
Met Phe Ser Phe Phe Asp Ser Val Leu Cys Cys Pro Asp Gly Gly Val
    130                 135                 140

Ser Pro Cys Leu Leu Pro Phe Leu Pro Trp Thr Leu Ala Ile Gly Pro
145                 150                 155                 160

Asp Glu Arg Val His Val Val
                165
```

<210> 1363
<211> 286
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (204)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (264)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (271)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1363
```
Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
  1             5                 10                 15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
                20                 25                 30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
            35                 40                 45
```

```
Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
    50                  55                  60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
65              70                  75                          80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
                85                  90                  95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
            100                 105                 110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
        115                 120                 125

Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
    130                 135                 140

Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
145                 150                 155                 160

Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
            165                 170                 175

Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
        180                 185                 190

Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu
        195                 200                 205

Leu Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa
    210                 215                 220

Tyr Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
225                 230                 235                 240

Met Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln
            245                 250                 255

Arg Val Val Pro Ala Leu His Xaa Leu Ser Pro Val Asp Pro Xaa Asn
            260                 265                 270

Leu Cys Gln Asp Cys His Asn Phe Gln Pro Leu Gly Leu Phe
    275                 280                 285
```

<210> 1364
<211> 283
<212> PRT
<213> Homo sapiens

934

<400> 1364

```
Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
  1               5                  10                  15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
              20                  25                  30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
          35                  40                  45

Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
      50                  55                  60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
 65               70                  75                  80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
              85                  90                  95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
             100                 105                 110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
             115                 120                 125

Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
     130                 135                 140

Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
145                 150                 155                 160

Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
             165                 170                 175

Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
             180                 185                 190

Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Ala Ser Phe Val Glu
             195                 200                 205

Leu Gly Ala Asn Pro Ala Tyr His Glu Leu Leu Leu Thr Val Leu Trp
     210                 215                 220

Tyr Gly Val Val His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
225                 230                 235                 240

Met Phe Glu Val Cys Gln His Met Pro Leu Leu Val Ser Ile Ile Met
             245                 250                 255

Ile Phe Phe Phe Leu Arg Arg Arg Arg Glu Phe Phe Leu Ile Lys Arg
             260                 265                 270
```

935

```
Leu Cys Ile Ser Lys Lys Lys Lys Lys Lys Lys
        275                 280


<210> 1365
<211> 379
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (283)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1365
Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu
  1               5                   10                  15

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr
            20              25                  30

His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly
            35                  40                  45

Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys
        50                  55                  60

Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met
 65                 70                  75                  80

Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val
                85                  90                  95

Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val
            100                 105                 110

Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln
            115                 120                 125

Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu
        130                 135                 140


                           936
```

Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu
145   150   155   .   160

Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile
                165   170   175

Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser
                180   185   190

Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn
        195   200   205

Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu
    210   215   220

Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Val
225   230   235   240

Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu Asp
            245   250   .255   .

Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu Ser
        260   265   270

Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu Leu
        275   280   285

Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa Tyr
    290   295   300

Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg Met
305   310   315   .   320

Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln Arg
                325   330   335

Val Val Pro Ala Leu Ile Thr Leu Ser Ser Asp Pro Glu Ile Ser Val
            340   345   350

Arg Ile Ala Thr Ile Pro Ala Phe Gly Thr Ile Met Glu Thr Val Ile
        355   360   365

Gln Arg Glu Leu Leu Glu Arg Val Lys Met Gln
    370   375

<210> 1366
<211> 156
<212> PRT
<213> Homo sapiens

<400> 1366
Met Pro Ala Leu Leu Pro Val Ala Ser Arg Leu Leu Leu Leu Pro Arg
 1   5   10   15

Val Leu Leu Thr Met Ala Ser Gly Ser Pro Pro Thr Gln Pro Ser Pro
            20   25   30

Ala Ser Asp Ser Gly Ser Gly Tyr Val Pro Gly Ser Val Ser Ala Ala
            35.   40   45

Phe Val Thr Cys Pro Asn Glu Lys Val Ala Lys Glu Ile Ala Arg Ala
    50   55   60

Val Val Glu Lys Arg Leu Ala Ala Cys Val Asn Leu Ile Pro Gln Ile
 65   70   75   80

Thr Ser Ile Tyr Glu Trp Lys Gly Lys Ile Glu Glu Asp Ser Glu Val
            85   90   95

Leu Met Met Ile Lys Thr Gln Ser Ser Leu Val Pro Ala Leu Thr Asp
            100   105   110

Phe Val Arg Ser Val His Pro Tyr Glu Val Ala Glu Val Ile Ala Leu
            115   120   125

Pro Val Glu Gln Gly Asn Phe Pro Tyr Leu Gln Trp Val Arg Gln Val
    130   135   140

Thr Glu Ser Val Ser Asp Ser Ile Thr Val Leu Pro
145   150   155

<210> 1367
<211> 156
<212> PRT
<213> Homo sapiens

<400> 1367
Met Pro Ala Leu Leu Pro Val Ala Ser Arg Leu Leu Leu Leu Pro Arg
 1   5   10   15

Val Leu Leu Thr Met Ala Ser Gly Ser Pro Pro Thr Gln Pro Ser Pro
            20   25   30

Ala Ser Asp Ser Gly Ser Gly Tyr Val Pro Gly Ser Val Ser Ala Ala
            35   40   45

Phe Val Thr Cys Pro Asn Glu Lys Val Ala Lys Glu Ile Ala Arg Ala
    50   55   60

```
Val Val Glu Lys Arg Leu Ala Ala Cys Val Asn Leu Ile Pro Gln Ile
65                  70                  75                  80

Thr Ser Ile Tyr Glu Trp Lys Gly Lys Ile Glu Glu Asp Ser Glu Val
                85                  90                  95

Leu Met Met Ile Lys Thr Gln Ser Ser Leu Val Pro Ala Leu Thr Asp
            100                 105                 110

Phe Val Arg Ser Val His Pro Tyr Glu Val Ala Glu Val Ile Ala Leu
            115                 120                 125

Pro Val Glu Gln Gly Asn Phe Pro Tyr Leu Gln Trp Val Arg Gln Val
    130                 135                 140

Thr Glu Ser Val Ser Asp Ser Ile Thr Val Leu Pro
145                 150                 155
```

<210> 1368
<211> 442
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (247)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1368

```
Met Trp Arg Leu Pro Gly Leu Leu Gly Arg Ala Leu Pro Arg Thr Leu
  1               5                   10                  15

Gly Pro Ser Leu Trp Arg Val Thr Pro Lys Ser Thr Ser Pro Asp Gly
            20                  25                  30

Pro Gln Thr Thr Ser Ser Thr Leu Leu Val Pro Val Pro Asn Leu Asp
            35                  40                  45

Arg Ser Gly Pro His Gly Pro Gly Thr Ser Gly Gly Pro Arg Ser His
    50                  55                  60

Gly Trp Lys Asp Ala Phe Gln Trp Met Ser Ser Arg Val Ser Pro Asn
65                  70                  75                  80

Thr Leu Trp Asp Ala Ile Ser Trp Gly Thr Leu Ala Val Leu Ala Leu
```

939

```
                      85                    90                      95
Gln Leu Ala Arg Gln Ile His Phe Gln Ala Ser Leu Pro Ala Gly Pro
            100                 105                 110

Gln Arg Val Glu His Cys Ser Trp His Ser Pro Leu Asp Arg Phe Phe
            115                 120                 125

Ser Ser Pro Leu Trp His Pro Cys Ser Ser Leu Arg Gln His Ile Leu
    130                 135                 140

Pro Ser Pro Asp Gly Pro Ala Pro Arg His Thr Gly Leu Arg Glu Pro
145                 150                 155                 160

Arg Leu Gly Xaa Glu Glu Ala Ser Ala Gln Pro Arg Asn Phe Ser His
                165                 170                 175

Asn Ser Leu Arg Gly Ala Arg Pro Gln Asp Pro Ser Glu Glu Gly Pro
            180                 185                 190

Gly Asp Phe Gly Phe Leu His Ala Ser Ser Ser Ile Glu Ser Glu Ala
            195                 200                 205

Lys Pro Ala Gln Pro Gln Pro Thr Gly Glu Lys Glu Gln Asp Lys Ser
    210                 215                 220

Lys Thr Leu Ser Leu Glu Glu Ala Val Thr Ser Ile Gln Gln Leu Phe
225                 230                 235                 240

Gln Leu Ser Val Ser Ile Xaa Phe Asn Phe Leu Gly Thr Glu Asn Met
                245                 250                 255

Lys Ser Gly Asp His Thr Ala Ala Phe Ser Tyr Phe Gln Lys Ala Ala
            260                 265                 270

Ala Arg Gly Tyr Ser Lys Ala Gln Tyr Asn Ala Gly Leu Cys His Glu
            275                 280                 285

His Gly Arg Gly Thr Pro Arg Asp Ile Ser Lys Ala Val Leu Tyr Tyr
    290                 295                 300

Gln Leu Ala Ala Ser Gln Gly His Ser Leu Ala Gln Tyr Arg Tyr Ala
305                 310                 315                 320

Arg Cys Leu Leu Arg Asp Pro Ala Ser Ser Trp Asn Pro Glu Arg Gln
            325                 330                 335

Arg Ala Val Ser Leu Leu Lys Gln Ala Ala Asp Ser Gly Leu Arg Glu
            340                 345                 350

Ala Gln Ala Phe Leu Gly Val Leu Phe Thr Lys Glu Pro Tyr Leu Asp
    355                 360                 365
```

940

```
Glu Gln Arg Ala Val Lys Tyr Leu Trp Leu Ala Ala Asn Asn Gly Asp
    370             375             380

Ser Gln Ser Arg Tyr His Leu Gly Ile Cys Tyr Glu Lys Gly Leu Gly
385             390             395                     400

Val Gln Arg Asn Leu Gly Glu Ala Leu Arg Cys Tyr Gln Gln Ser Ala
                405             410             415

Ala Leu Gly Asn Glu Ala Ala Gln Glu Arg Leu Arg Ala Leu Phe Ser
            420             425             430

Met Gly Ala Ala Ala Gly Gly Pro Ala Thr
        435             440


<210> 1369
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1369
Met Gly Leu Arg Leu Pro Pro Leu Cys Trp Phe Leu Cys Leu Thr
 1           5               10              15

Ser Thr Gly Gln Val Pro Met Ala Gln Ala Arg Ala Gly Val Gln Gly
            20              25              30

Pro Met Asp Gly Arg Met Pro Ser Asn Gly Cys Leu Pro Val Ser Pro
        35              40              45

Arg Thr Pro Tyr Gly Met Pro Tyr Leu Gly Ala Leu Trp Pro Cys Trp
    50              55              60

Pro Cys Ser Trp Gln Gly Arg Ser Thr Ser Arg His Pro Cys Gln Gln
 65             70              75                      80

Asp Leu Ser Gly


<210> 1370
<211> 129
<212> PRT
<213> Homo sapiens

<400> 1370
Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val
 1           5               10              15
```

941

```
Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly
            20                  25                  30

Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile
            35                  40                  45

Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu
        50                  55                  60

Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser
 65                  70                  75                      80

Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe
                85                  90                  95

Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln
            100                 105                 110

Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp
            115                 120                 125

Pro
```

<210> 1371
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1371
Xaa Xaa Asp Thr Gln Gly Arg Val Arg Gly Arg His Glu Glu Trp Gly
 1   5   10   15

Gly Arg Arg Trp Arg Lys Glu Gly Ser Glu Gln Arg Ala Pro Gly Met
            20   25   30

Ala Trp Lys Arg Leu Ser Pro Trp Ile Leu Trp Val Gly Ala Ser Gly
        35   40   45

Leu Thr Ser Xaa Xaa
    50

<210> 1372
<211> 129
<212> PRT
<213> Homo sapiens

<400> 1372
Met Val Gly Val Gln Ile Trp Thr Leu Thr Cys Cys Val Ile Leu Val
 1   5   10   15

Val Val Leu Pro Phe Ser Val Pro His Ser Leu Ile Cys Arg Met Gly
            20   25   30

Leu Ile Ala Thr Ser Val Leu Gln Gly His Gly Lys Ser Lys Met Ile
        35   40   45

Asn Ala Thr Val Cys Leu Ala Leu Gly Leu Pro Arg Val Pro Arg Glu
    50   55   60

Asp Gln Leu Ile Val Ser Leu Asp Pro Gln Ser Ser Glu Ser Ala Ser
 65   70   75   80

Leu Glu Ala Leu Leu Lys Tyr Ser Phe Leu Gly Pro Pro Ser Leu Phe
            85   90   95

Pro Ile Gln Trp Ser Gly Leu Gly Leu Ser Ile Ser Val Ser Tyr Gln
            100   105   110

Phe Gln Val Thr Leu Val Pro Leu Ala Trp Gly Pro Asn Ser Gln Asp
        115   120   125

Pro

<210> 1373
<211> 117

943

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1373
Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser
 1   5   10   15

Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala
            20   25   30

Gln Glu Lys Val Ile Pro Ala Leu Ala Cys Leu Gly Gln Gly Lys Gly
        35   40   45   .

Pro Asn Lys Thr Pro Val Ala Ala Ile Cys Leu Thr Ser Leu Val Thr
    50   55   60

Met Ala Phe Val Phe Val Gly Gln Val Asn Val Leu Ala Pro Ile Val
 65   70   75   80

Thr Ile Asn Phe Met Leu Thr Tyr Val Ala Val Asp Tyr Ser Tyr Phe
            85   90   95

Ser Leu Ser Met Cys Ser Cys Ser Leu Thr Pro Val Pro Glu Pro Val
            100   105   110

Leu Xaa Glu Gly Ala
        115

<210> 1374
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1374
Gln Gly Thr Pro Arg Leu Cys Thr Thr Arg Leu Leu Val Gln Arg Ala
 1   5   10   15

Thr Ile Ser Val Cys Phe Ile Phe Tyr Cys Ile Ile Tyr Ser Lys Ile
                20   25   30

Asn Asn Thr Leu Thr Cys Phe His Thr Gln Lys Ile Tyr Arg Val Lys
            35   40   45

Ser Leu Pro Pro Ile Leu Ile Leu His Leu Leu Ser Ser Cys Leu Pro
        50   55   60

Trp Pro Arg Gly Asn His Tyr Ser His Pro Tyr Ile Gln His Phe Phe
 65   70   75   80

Met Asp Ile Gln Xaa Asn Gly Asn Val Xaa Ser His Ile Ser Leu Phe
                85   90   95

Xaa Pro

<210> 1375
<211> 407
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1375
Met Gly Phe Leu Phe Leu Leu Gly Leu Tyr Ile Ser Ser Leu Ala Ser
 1   5   10   15

Cys Met Gly Gly Leu Tyr Gly Ala Pro Arg Ile Leu Gln Cys Ile Ala
                20   25   30

Gln Glu Lys Val Ile Pro Ala Leu Ala Cys Leu Gly Gln Gly Lys Gly
            35   40   45

Pro Asn Lys Thr Pro Val Ala Ala Ile Cys Leu Thr Ser Leu Val Thr
        50   55   60

Met Ala Phe Val Phe Val Gly Gln Val Asn Val Leu Ala Pro Ile Val
 65   70   75   80

945

Thr Ile Asn Phe Met Leu Thr Tyr Val Ala Val Asp Tyr Ser Tyr Phe
                    85   90   95

Ser Leu Ser Met Cys Ser Cys Ser Leu Thr Pro Val Pro Glu Pro Val
                100   105   110

Leu Xaa Glu Gly Ala Glu Gly Leu His Cys Ser Glu His Leu Leu Leu
        115   120   125

Glu Lys Ala Pro Ser Tyr Gly Ser Glu Gly Pro Ala Gln Arg Val Leu
        130   135   140

Glu Gly Thr Leu Leu Glu Phe Thr Lys Asp Met Asp Gln Leu Leu Gln
145   150   155   160

Leu Thr Arg Lys Leu Glu Ser Ser Gln Pro Arg Gln Gly Glu Gly Asn
                165   170   175

Arg Thr Pro Glu Ser Gln Lys Arg Lys Ser Lys Lys Ala Thr Lys Gln
            180   185   190

Thr Leu Gln Asp Ser Phe Leu Leu Asp Leu Lys Ser Pro Pro Ser Phe
        195   200   205

Pro Val Glu Ile Ser Asp Arg Leu Pro Ala Ala Ser Trp Glu Gly Gln
    210   215   220

Glu Ser Cys Trp Asn Lys Gln Thr Ser Lys Ser Glu Gly Thr Gln Pro
225   230   235   240

Glu Gly Thr Tyr Gly Glu Gln Leu Val Pro Glu Leu Cys Asn Gln Ser
            245   250   255

Glu Ser Ser Gly Glu Asp Phe Phe Leu Lys Ser Arg Leu Gln Glu Gln
            260   265   270

Asp Val Trp Arg Arg Ser Thr Ser Phe Tyr Thr His Met Cys Asn Pro
        275   280   285

Trp Val Ser Leu Leu Gly Ala Val Gly Ser Leu Leu Ile Met Phe Val
    290   295   300

Ile Gln Trp Val Tyr Thr Leu Val Asn Met Gly Val Ala Ala Ile Val
305   310   315   320

Tyr Phe Tyr Ile Gly Arg Ala Ser Pro Gly Leu His Leu Gly Ser Ala
            325   330   335

Ser Asn Phe Ser Phe Phe Arg Trp Met Arg Ser Leu Leu Leu Pro Ser
        340   345   350

946

```
Cys Arg Ser Leu Gln Ser Pro Gln Glu Gln Ile Ile Leu Ala Pro Ser
        355                 360                 365

Leu Ala Lys Val Asp Met Glu Met Thr Gln Leu Thr Gln Glu Asn Ala
        370                 375                 380

Asp Phe Ala Thr Arg Asp Arg Tyr His His Ser Ser Leu Val Asn Arg
385                 390                 395                 400

Glu Gln Leu Met Pro His Tyr
                405
```

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<400> 1376
Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg
  1             5                  10                  15

Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val
            20                  25                  30

Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val
        35                  40                  45

Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser
    50                  55                  60

Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu
65                  70                  75                  80

Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu
                85                  90                  95

Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala
            100                 105                 110

Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly
        115                 120                 125

Gly Asn Lys Lys Thr Leu Gly Thr Pro
    130                 135
```

```
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1377
Phe Gly Pro Ala Val Phe Gly Phe Gly Ser Pro Arg Gly Lys Pro Pro
 1               5                  10                  15

Gly Asn Xaa Arg Gly Gly Pro Ile Arg Val Pro Gly Phe Gly Arg Pro
            20                  25                  30

Arg Pro Ile Ser Ala Pro Glu Val Trp Glu Gly Arg Pro Leu Xaa Ala
            35                  40                  45

Pro Arg Ser Cys Phe Arg Asn Phe Arg Xaa Arg Arg Ser Gly Gly His
    50                  55                  60

Ala Val Pro Pro Gly Ser Glu Thr His Phe Arg Val Ala Val Val Ser
65                  70                  75                  80

Ser Arg Phe Glu Gly Leu Ser Pro Leu Gln Arg His Arg Leu Val His
                85                  90                  95

Ala Ala Leu Ala Glu Glu Leu Xaa Gly Pro Val His Ala Leu Ala Ile
            100                 105                 110

Gln Ala Arg Thr Pro Ala Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr
            115                 120                 125

Ser Pro Pro Cys Leu Gly Gly Asn Lys Lys Thr Leu Gly Thr Pro
    130                 135                 140
```

<210> 1378
<211> 137
<212> PRT
<213> Homo sapiens

<400> 1378
Met Leu Ser Gly Arg Leu Val Leu Gly Leu Val Ser Met Ala Gly Arg
1   5   10   15

Val Cys Leu Cys Gln Gly Ser Ala Gly Ser Gly Ala Ile Gly Pro Val
            20   25   30

Glu Ala Ala Ile Arg Thr Lys Leu Glu Glu Ala Leu Ser Pro Glu Val
        35   40   45

Leu Glu Leu Arg Asn Glu Ser Gly Gly His Ala Val Pro Pro Gly Ser
    50   55   60

Glu Thr His Phe Arg Val Ala Val Val Ser Ser Arg Phe Glu Gly Leu
65   70   75   80

Ser Pro Leu Gln Arg His Arg Leu Val His Ala Ala Leu Ala Glu Glu
            85   90   95

Leu Gly Gly Pro Val His Ala Leu Ala Ile Gln Ala Arg Thr Pro Ala
            100   105   110

Gln Trp Arg Glu Asn Ser Gln Leu Asp Thr Ser Pro Pro Cys Leu Gly
        115   120   125

Gly Asn Lys Lys Thr Leu Gly Thr Pro
    130   135

<210> 1379
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1379
Met Ile Arg Arg Leu Val Phe Ala Ala Phe Pro Arg Leu Phe Pro Val
1   5   10   15

Xaa Leu Pro Ser Met Leu Thr His Trp Ala Ser Leu Ala Val Ile Pro
            20   25   30

949

```
Thr Met Thr Ala Thr Ser Val Gly Lys Ala Pro Pro Gly Pro Leu Pro
        35                  40                  45

Asp Ala Ser Pro Ser Leu Arg Leu Pro Ala Arg Arg Arg Pro Asp Pro
        50                  55                  60

Val Gly Ala Cys Arg Gly Val Arg Gly Met Ala Asp Leu Met Val Pro
65                  70                  75                  80

Leu Pro
```

```
<210> 1380
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (246)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1380
Glu Phe Gly Thr Ser Leu Lys Val Arg Gly Phe Ile Leu Glu Val Ser
 1                5                  10                  15

Glu Thr Thr Asn Pro Pro Glu Gly Thr Asn Ser Gly His Ser Gly Met
              20                  25                  30

Val Ser Ala Leu Cys Gly Leu Cys Leu Leu Gly Ser Asn Asp Ser Pro
```

Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Leu Ser Lys Ser Leu
      50   55   60

Gly Leu Ile Glu Gly Tyr Gly Gly Arg Gly Lys Gly Gly Leu Pro Ala
 65   70   75   80

Thr Leu Ser Pro Ala Glu Glu Glu Lys Ala Lys Gly Pro His Glu Lys
                85   90   95

Tyr Gly Tyr Asn Ser Tyr Leu Ser Glu Lys Ile Ser Leu Asp Arg Ser
            100   105   110

Ile Pro Asp Tyr Arg Pro Thr Lys Cys Lys Glu Leu Lys Tyr Ser Lys
         115   120   125

Asp Leu Pro Gln Ile Ser Ile Ile Phe Ile Phe Val Asn Glu Ala Leu
     130   135   140

Ser Val Ile Leu Arg Ser Val His Ser Ala Val Asn His Thr Pro Thr
145   150   155   160

His Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Asn Ser Asp Glu Xaa
             165   170   175

Glu Leu Lys Val Pro Leu Glu Glu Tyr Val His Lys Arg Tyr Pro Gly
             180   185   190

Leu Val Lys Val Val Arg Asn Gln Lys Arg Glu Ser Leu Ile Arg Ala
         195   200   205

Arg Xaa Glu Gly Trp Xaa Val Ala Thr Gly Gln Val Thr Gly Phe Phe
     210   215   220

Asp Ala Pro Arg Gly Ile His Arg Leu Leu Gly Leu Xaa Arg Val Tyr
225   230   235   240

Pro Asp Pro Gly Lys Xaa Arg Lys Arg Gly Asn Leu Pro Leu
            245   250

<210> 1381
<211> 74
<212> PRT
<213> Homo sapiens

<400> 1381
Gly Arg Glu Phe Glu Thr Ser Leu Asp Asn Ile Ala Arg Asp Pro Val
 1   5   10   15

Cys Ile Thr Ser Leu Lys Ile Asp Trp Ala Trp Trp Cys Met Met Val
            20   25   30

Val Pro Ala Thr Arg Gly Thr Gly Ala Glu Gly Ser Leu Glu Ser Arg
            35   40   45

Phe Gln Ala Ala Val Gly Cys Asp Cys Val Thr Ala Leu Gln Pro Gly
        50   55   60

Gln Gln Ser Glu Thr Leu Ser Leu Lys Lys
65   70

<210> 1382
<211> 273
<212> PRT
<213> Homo sapiens

<400> 1382
Met Val Ser Ala Leu Cys Gly Leu Cys Leu Leu Gly Ser Asn Asp Ser
 1   5   10   15

Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Leu Ser Lys Ser
            20   25   30

Leu Gly Leu Ile Glu Gly Tyr Gly Gly Arg Gly Lys Gly Gly Leu Pro
        35   40   45

Ala Thr Leu Ser Pro Ala Glu Glu Glu Lys Ala Lys Gly Pro His Glu
        50   55   60

Lys Tyr Gly Tyr Asn Ser Tyr Leu Ser Glu Lys Ile Ser Leu Asp Arg
65   70   75   80

Ser Ile Pro Asp Tyr Arg Pro Thr Lys Cys Lys Glu Leu Lys Tyr Ser
            85   90   95

Lys Asp Leu Pro Gln Ile Ser Ile Ile Phe Ile Phe Val Asn Glu Ala
            100   105   110

Leu Ser Val Ile Leu Arg Ser Val His Ser Ala Val Asn His Thr Pro
        115   120   125

Thr His Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Asn Ser Asp Glu
    130   135   140

Glu Glu Leu Lys Val Pro Leu Glu Glu Tyr Val His Lys Arg Tyr Pro
145   150   155   160

Gly Leu Val Lys Val Val Arg Asn Gln Lys Arg Glu Gly Leu Ile Arg
                165   170   175

952

```
Ala Arg Ile Glu Gly Trp Lys Val Ala Thr Gly Gln Val Thr Gly Phe
        180                 185             190

Phe Asp Ala His Val Glu Phe Thr Ala Gly Trp Ala Glu Pro Val Leu
        195                 200             205

Ser Arg Ile Gln Glu Asn Arg Lys Arg Val Ile Leu Pro Ser Ile Asp
        210                 215             220

Asn Ile Lys Gln Asp Asn Phe Glu Val Gln Arg Tyr Glu Asn Ser Ala
225                 230             235                 240

His Gly Tyr Ser Trp Glu Leu Trp Cys Met Tyr Ile Ser Pro Pro Lys
                245             250             255

Asp Trp Trp Asp Ala Gly Asp Pro Ser Leu Pro Ile Ser Asp Arg Phe
            260             265             270

Ser


<210> 1383
<211> 238
<212> PRT
<213> Homo sapiens

<400> 1383
Met Gln Gln Gly Pro Lys Glu Phe Ile Glu Cys Val Ser His Ile Arg
  1               5               10                  15

Leu Leu Ser Trp Leu Leu Leu Gly Ser Leu Thr His Asn Ala Val Cys
            20              25                  30

Pro Asn Ala Ser Ser Pro Cys Leu Pro Ile Pro Leu Asp Ala Gly Ser
        35              40                  45

His Val Ala Asp His Leu Ile Val Ile Leu Ile Gly Phe Pro Glu Gln
    50              55                  60

Ser Lys Thr Ser Val Leu His Met Cys Ser Leu Phe His Ala Phe Ile
65              70                  75                  80

Phe Ala Gln Leu Trp Thr Val Tyr Cys Glu Gln Ser Ala Val Ala Thr
                85              90                  95

Asn Leu Gln Asn Gln Asn Glu Phe Ser Phe Thr Ala Ile Leu Thr Ala
            100             105                 110

Leu Glu Phe Trp Ser Arg Val Thr Pro Ser Ile Leu Gln Leu Met Ala
```

953

His Asn Lys Val Met Val Glu Met Val Cys Leu His Val Ile Ser Leu
    130   135   140

Met Glu Ala Leu Gln Glu Cys Asn Ser Thr Ile Phe Val Lys Leu Ile
145   150   155   160

Pro Met Trp Leu Pro Met Ile Gln Ser Asn Ile Lys His Leu Ser Ala
                165   170   175

Gly Leu Gln Leu Arg Leu Gln Ala Ile Gln Asn His Val Asn His His
            180   185   190

Ser Leu Arg Thr Leu Pro Gly Ser Gly Gln Ser Ser Ala Gly Leu Ala
            195   200   205

Ala Leu Arg Lys Trp Leu Gln Cys Thr Gln Phe Lys Met Ala Gln Val
    210   215   220

Glu Ile Gln Ser Ser Glu Ala Ala Ser Gln Phe Tyr Pro Leu
225   230   235

<210> 1384
<211> 227
<212> PRT
<213> Homo sapiens

<400> 1384
His Glu Leu Lys Val Gly Leu Ala Gln Ile Ala Ala Met Asp Ile Ser
  1   5   10   15

Arg Gly Asn His Arg Asp Asn Lys Ala Val Ile Arg Tyr Leu Pro Trp
            20   25   30

Leu Tyr His Pro Pro Ser Ala Met Gln Gln Gly Pro Lys Glu Phe Ile
            35   40   45

Glu Cys Val Ser His Ile Arg Leu Leu Ser Trp Leu Leu Leu Gly Ser
    50   55   60

Leu Thr His Asn Ala Val Cys Pro Asn Ala Ser Ser Pro Cys Leu Pro
 65   70   75   80

Ile Pro Leu Asp Ala Gly Ser His Val Ala Asp His Leu Ile Val Ile
            85   90   95

Leu Ile Gly Phe Pro Glu Gln Ser Lys Thr Ser Val Leu His Met Cys
            100   105   110

```
Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val Tyr Cys
        115             120             125

Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu Phe Ser
    130             135             140

Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val Thr Pro
145             150             155                 160

Ser Ile Leu Gln Leu Met Ala His Asn Lys Val Met Val Glu Met Val
                165             170             175

Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Glu Cys Asn Ser
            180             185             190

Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile Gln Ser
        195             200             205

Asn Ile Lys His Leu Ser Ala Gly Leu Gln Phe Ala Ser Arg Leu Phe
    210             215             220

Arg Thr Thr
225



<210> 1385
<211> 85
<212> PRT
<213> Homo sapiens

<400> 1385
Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe
  1           5               10              15

Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser
            20              25              30

Cys Tyr Leu Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro
        35              40              45

Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu
    50              55              60

Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly
 65             70              75                  80

Gly Arg Cys Ser Gly
                85
```

<210> 1386
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1386
Leu Leu Gly Cys Thr Lys Ile Gly Gly Arg Ser Asp Leu Ala Gly Pro
1   5   10   15

Trp Val Arg Xaa Arg Ser Leu Glu Pro Thr Cys Val Gly Met Asn Pro
            20   25   30

Gly Ser Ala Gly Cys Pro Leu Val Ser Gly Ser Thr Ser Leu Cys Phe
        35   40   45

Arg Val Leu Ile Tyr Lys Met Gly Met Met Met Ile Leu Trp Gly
    50   55   60

Cys Asn Met Val Gln Ser His Trp Lys Ser Leu Ala Val Pro Gln Lys
65   70   75   80

Val Lys His Lys Ser Tyr His Met Ile Gln Val Trp Gln His Ile Pro
            85   90   95

Val Val Pro Ala Thr Gln Glu Asp His Leu Ser Pro Gly Val
        100   105   110

<210> 1387
<211> 85
<212> PRT
<213> Homo sapiens

<400> 1387
Met Ser Thr Cys Cys Thr Ser Ala Leu Gln Tyr Leu Leu Ala Leu Phe
1   5   10   15

Pro Leu Pro Ala Pro Asn Cys Val Ser Tyr Arg Ser Gln Gly Ser Ser
            20   25   30

Cys Tyr Leu Leu Leu Gln Ile Gln Lys Pro Arg Leu Arg Glu Glu Pro
        35   40   45

Glu Trp Pro Gln Pro Gln Ser Lys Ser Met Arg Gly Ser Met Lys Leu
    50   55   60

Gly Phe Phe Pro His Cys Thr Arg Leu Leu Pro Ser Trp Gly Gly Gly
 65   70   75   80

Gly Arg Cys Ser Gly
                 85

<210> 1388
<211> 261
<212> PRT
<213> Homo sapiens

<400> 1388
Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn
 1   5   10   15

Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly
                 20   25   30

Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala
             35   40   45

Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe
         50   55   60

Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val
 65   70   75   80

Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile
                 85   90   95

Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile
             100   105   110

Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile
         115   120   125

Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp
     130   135   140

Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser
145   150   155   160

Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His
                 165   170   175

Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr
             180   185   190

Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp
         195   200   205

957

```
Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys
    210             215             220
```

```
Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu
225             230             235             240
```

```
Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys Lys His
            245             250             255
```

```
Thr Lys Lys Asn Glu
            260
```

```
<210> 1389
<211> 72
<212> PRT
<213> Homo sapiens
```

```
<400> 1389
Ile Val Asn Pro Met Phe Cys Asn Phe His Phe Arg Ser Leu Thr Tyr
  1             5               10              15
```

```
Phe Phe Leu Ser His Lys Asn Thr Phe Val Leu Ile Val Gly Glu Ile
            20              25              30
```

```
Phe Ser Ala Phe Cys Met Phe Phe Leu Ile Phe Val Gly Leu Asn Ile
          35              40              45
```

```
Leu Val Val Ile Thr Val Ile Ile Gln Gln Lys Ala Tyr Pro Phe Lys
    50              55              60
```

```
Asn Phe Ser Thr Met Ser Phe Phe
 65                  70
```

```
<210> 1390
<211> 261
<212> PRT
<213> Homo sapiens
```

```
<400> 1390
Met Ala Val Lys Arg Gln Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn
  1             5               10              15
```

```
Pro Ile Ser Ser Trp Phe Thr Ala Met Leu His Cys Phe Gly Gly Gly
            20              25              30
```

```
Ile Leu Ser Cys Leu Leu Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala
          35              40              45
```

958

```
Asn His Thr Asn Ile Leu Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe
    50                  55                  60

Phe Cys Pro His Asp Leu Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val
65              70                  75                      80

Gln Leu Leu Ala Ser Gly Met Lys Glu Val Thr Arg Thr Trp Lys Ile
                85                  90                  95

Val Gly Gly Val Thr His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile
                100                 105                 110

Val Met Ile Ala Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile
                115                 120                 125

Thr Asn Phe Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp
    130                 135                 140

Glu Trp Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser
145                 150                 155                 160

Val Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His
                165                 170                 175

Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile Thr
                180                 185                 190

Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe Glu Asp
                195                 200                 205

Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys
    210                 215                 220

Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly Val Gly Ser Leu
225                 230                 235                 240

Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys Lys His
                245                 250                 255

Thr Lys Lys Asn Glu
                260


<210> 1391
<211> 98
<212> PRT
<213> Homo sapiens

<400> 1391
Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe
```

Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu
              20   25   30

Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val
              35   40   45

Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu
          50   55   60

Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp
 65   70   75   80

Ser Phe Gly Trp Gln Val Ala Leu Arg Pro Ser Glu Lys Ser Pro Cys
                  85   90   95

Phe Ser

<210> 1392
<211> 98
<212> PRT
<213> Homo sapiens

<400> 1392
Met His Leu His Val Ser Val Ser Leu Ile Trp Gly Leu Leu Ser Phe
 1   5   10   15

Leu Ser Leu Gln Val Cys Val Phe Val Gly Ser Ser Gln Pro Leu Leu
              20   25   30

Leu Gln Cys Val Ser Gly Pro Ala Pro Phe Leu Leu Ser Leu Gly Val
              35   40   45

Arg His Gln Pro Phe Trp Asp Cys Pro Thr Gly Pro Ser Arg Glu Glu
          50   55   60

Thr Arg Leu Asn Pro Arg Ala Leu Thr Arg Pro Arg Gln Thr Cys Trp
 65   70   75   80

Ser Phe Gly Trp Gln Val Ala Leu Arg Pro Ser Glu Lys Ser Pro Cys
                  85   90   95

Phe Ser

<210> 1393

<211> 139
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1393
Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Xaa Tyr Arg
 1   5   10   15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala
             20   25   30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
             35   40   45

Trp Leu Lys Arg Thr Ala Thr Arg Ser Ser Arg Pro Cys Ala Ser Asn
     50   55   60

Thr Arg Cys Cys Ser Trp Pro Cys Ser Asp Pro Lys Ala Thr Gly Ser
 65   70   75   80

Ser Pro Gly Ala Arg Ser Pro Pro Ser Thr Gly Cys Lys Gly Ile Ala
                 85   90   95

Cys Ala Ser Arg Ser Phe Arg Gly Gly Asp Asn Ala Cys Cys Val Lys
             100   105   110

Gln Asp Ser Xaa Ser Leu Cys Ile Tyr Arg Ser Asp Val Asp Ser Ser
             115   120   125

Gln Asn Ser Leu Val Thr Lys Gly Ala Gly Xaa
     130   135

<210> 1394
<211> 316
<212> PRT

961

<213> Homo sapiens

<400> 1394
Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
 1   5   10   15

Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala
            20   25   30

Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
        35   40   45

Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln
    50   55   60

His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe
65   70   75   80

Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Leu Gln Gly Asp Arg
                85   90   95

Leu Arg Val Pro Leu Val Ser Thr Arg Glu Glu Asp Arg Asn Gln Asp
            100   105   110

Gly Lys Thr Asp Met Leu His Phe Lys Leu Glu Leu Pro Leu Gln Ser
        115   120   125

Thr Glu His Val Leu Gly Val Gln Leu Ile Leu Thr Phe Ser Tyr Arg
    130   135   140

Leu His Arg Met Ala Thr Leu Val Met Gln Ser Met Ala Phe Leu Gln
145   150   155   160

Ser Ser Phe Pro Val Pro Gly Ser Gln Leu Tyr Val Asn Gly Asp Leu
                165   170   175

Arg Leu Gln Gln Lys Gln Pro Leu Ser Cys Gly Gly Leu Asp Ala Arg
            180   185   190

Tyr Asn Ile Ser Val Ile Asn Gly Thr Ser Pro Phe Ala Tyr Asp Tyr
        195   200   205

Asp Leu Thr His Ile Val Ala Ala Tyr Gln Glu Arg Asn Val Thr Thr
    210   215   220

Val Leu Asn Asp Pro Asn Pro Ile Trp Leu Val Gly Arg Ala Ala Asp
225   230   235   240

Ala Pro Phe Val Ile Asn Ala Ile Ile Arg Tyr Pro Val Glu Val Ile
                245   250   255

Ser Tyr Gln Pro Gly Phe Trp Glu Met Val Lys Phe Ala Trp Val Gln

962

```
              260                   265                    270

Tyr Val Ser Ile Leu Leu Ile Phe Leu Trp Val Phe Glu Arg Ile Lys
        275                 280                 285

Ile Phe Val Phe Gln Asn Gln Val Val Thr Thr Ile Pro Val Thr Val
    290                 295                 300

Thr Pro Arg Gly Asp Leu Cys Lys Glu His Leu Ser
305                 310                 315
```

<210> 1395
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 1395
Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
 1               5                  10                  15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
            20                  25                  30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
            35                  40                  45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
    50                  55                  60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys
 65                  70                  75                  80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
                85                  90                  95

Leu Ile Ala Ser Thr Ala Val
                100
```

<210> 1396
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1396
```
Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
  1               5                  10                     15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
             20                  25                  30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
             35                  40                  45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
         50              55                  60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys
 65              70                  75                     80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
             85                  90                  95

Leu Ile Ala Ser Thr Ala Val
            100
```

<210> 1397
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1397
```
Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe
  1               5                  10                     15

Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Trp Leu
             20                  25                  30

Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Gly Phe Lys Cys Phe
             35                  40                  45

Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His
         50              55                  60

His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His
 65              70                  75                     80

Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala
             85                  90                  95

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro
            100                 105                 110

Pro Ala Cys Leu Val Phe Lys Phe Leu Phe Leu Gly Ser
```

964

<210> 1398
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1398
Ala Pro Val Leu Leu Leu Pro Ser Ser Cys Trp Gln Phe Trp Val Leu
 1   5   10   15

Gly Phe Phe Phe Phe Arg Gln Ser Leu Thr Pro Ser Pro Gly Trp Lys
            20   25   30

Tyr Ser Gly Ala Val Ser Ala His Cys Ser Leu Arg Leu Pro Gly Ser
            35   40   45

Asn Asp Pro Leu Ala Ser Ala Ser Gln Leu Ala Gly Thr Thr Gly Ala
        50   55   60

His His His Gly Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe
 65   70   75   80

His His Ile Ala Gln Ala Gly Leu Lys Leu Xaa Thr Ser Ser Asp Leu
                85   90   95

Leu Thr Ser Ala Phe Gln Ser Ala Gly Xaa Ile Tyr Ile Leu Asn Lys
            100   105   110

<210> 1399
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1399

965

```
Met Cys Val Trp Phe Cys Leu Phe Ala Cys Leu Phe Ala Cys Leu Phe
1               5                   10                  15

Phe Glu Thr Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Trp Leu
            20                  25                  30

Asp Leu Ser Ser Leu Gln Gln Pro Pro Pro Gly Phe Lys Cys Phe
        35                  40                  45

Ser Cys Leu Cys Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Cys His
    50                  55                  60

His Thr Arg Ile Ile Phe Val Phe Leu Val Glu Met Gly Phe His His
65                  70                  75                  80

Val Asp Gln Ala Asp Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Ala
                85                  90                  ·95

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Val Ser His His Thr Pro
            100             ·   105                 110

Pro Ala Cys Leu Phe Phe Lys Phe Leu Phe Leu Gly Ser
        115                 120                 125
```

<210> 1400
<211> 79
<212> PRT
<213> Homo sapiens

<400> 1400

```
Met Glu Leu Gly Cys Trp Thr His Trp Gly Ser Leu Phe Phe Ser Ser
1               5                   10                  15

Phe Ser Ser Arg Pro Cys Gln Glu Ser Thr Gln Ser Leu Met Lys Pro
            20                  25                  30

Ala Leu Glu Gln Ser Gly Ile Ser Cys Val Gly Ser Ala Val Asn Met
        35                  40                  45

Ile Arg Leu Ser Ala Ser Ala Pro Glu Arg Gly Lys Ser Trp Val Ile
    50                  55                  60

Pro Ser Leu Ala Ala Gly Met Arg Arg Met Ser Val Thr Pro Ala
65                  70                  75
```

<210> 1401
<211> 455
<212> PRT

966

<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1401
Xaa Thr Gly Gln Arg Cys Glu Asn Leu Leu Glu Glu Arg Asn Cys Ser
 1   5   10   15

Xaa Pro Gly Gly Pro Val Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro
            20   25   30

Gly Leu Ile Asn Gly Arg His Ala Lys Ile Gly Thr Val Val Ser Phe
        35   40   45

Phe Cys Asn Asn Ser Tyr Val Leu Ser Gly Asn Glu Lys Arg Thr Cys
    50   55   60

Gln Gln Asn Gly Glu Trp Ser Gly Lys Gln Pro Ile Cys Ile Lys Ala
65   70   75   80

Cys Arg Glu Pro Lys Ile Ser Asp Leu Val Arg Arg Arg Val Leu Pro
            85   90   95

Met Gln Val Gln Ser Arg Xaa Thr Pro Leu His Gln Leu Tyr Ser Ala
            100   105   110

Ala Phe Ser Lys Gln Lys Leu Gln Ser Ala Pro Thr Lys Lys Pro Ala
            115   120   125

Leu Pro Phe Gly Asp Leu Pro Met Gly Tyr Gln His Leu His Thr Gln
    130   135   140

Leu Gln Tyr Glu Cys Ile Ser Pro Phe Tyr Arg Arg Leu Gly Ser Ser
145   150   155   160

967

```
Arg Arg Thr Cys Leu Arg Thr Gly Lys Trp Ser Gly Arg Ala Pro Ser
              165              170              175

Cys Xaa Pro Ile Cys Gly Lys Ile Glu Asn Ile Thr Ala Pro Lys Thr
              180              185              190

Gln Gly Leu Arg Trp Pro Trp Gln Ala Ala Ile Tyr Arg Arg Thr Ser
              195              200              205

Gly Val His Asp Gly Ser Leu His Lys Gly Ala Trp Phe Leu Val Cys
    210              215              220

Ser Gly Ala Leu Val Asn Glu Arg Thr Val Val Val Ala Ala His Cys
225              230              235              240

Val Thr Asp Leu Gly Lys Val Thr Met Ile Lys Thr Ala Asp Leu Lys
              245              250              255

Val Val Leu Gly Lys Phe Tyr Arg Asp Asp Asp Arg Asp Glu Lys Thr
              260              265              270

Ile Gln Ser Leu Gln Ile Ser Ala Ile Ile Leu His Pro Asn Tyr Asp
    275              280              285

Pro Ile Leu Leu Asp Ala Asp Ile Ala Ile Leu Lys Leu Leu Asp Lys
    290              295              300

Ala Arg Ile Ser Thr Arg Val Gln Pro Ile Cys Leu Ala Ala Ser Arg
305              310              315              320

Asp Leu Ser Thr Ser Phe Gln Glu Ser His Ile Thr Val Ala Gly Trp
              325              330              335

Asn Val Leu Ala Asp Val Arg Ser Pro Gly Phe Lys Asn Asp Thr Leu
              340              345              350

Arg Ser Gly Val Val Ser Val Val Asp Ser Leu Leu Cys Glu Glu Gln
              355              360              365

His Glu Asp His Gly Ile Pro Val Ser Val Thr Asp Asn Met Phe Cys
    370              375              380

Ala Ser Trp Glu Pro Thr Ala Pro Ser Asp Ile Cys Thr Ala Glu Thr
385              390              395              400

Gly Gly Ile Ala Ala Val Ser Phe Pro Gly Arg Ala Ser Pro Glu Pro
              405              410              415

Arg Trp His Leu Met Gly Leu Val Ser Trp Ser Tyr Asp Lys Thr Cys
              420              425              430
```

968

```
Ser His Arg Leu Ser Thr Ala Phe Thr Lys Val Leu Pro Phe Lys Asp
        435                 440                 445

Trp Ile Glu Arg Asn Met Lys
    450                 455




<210> 1402
<211> 323
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (283)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (296)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (298)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1402
Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu
  1               5                  10                  15

Leu Leu Ile Ser Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
            20                  25                  30

Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr
        35                  40                  45

Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr
    50                  55                  60

Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu
 65                  70                  75                  80

Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn
                85                  90                  95

Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr
            100                 105                 110

Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys
        115                 120                 125
```

                                        969

```
Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr
    130                 135             140

Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe
145                 150             155                 160

Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met
                165             170             175

Cys Gln Tyr Asp Tyr Val Glu Val Arg Asp Gly Asp Asn Arg Asp Gly
            180             185             190

Gln Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Pro Ala Pro Ile Gln
        195             200             205

Ser Ile Gly Ser Ser Leu His Val Leu Phe His Ser Asp Gly Ser Lys
    210             215                 220

Asn Phe Asp Gly Phe His Ala Ile Tyr Glu Glu Ile Thr Ala Cys Ser
225             230             235             240

Ser Ser Pro Cys Phe His Asp Gly Thr Cys Val Leu Asp Lys Ala Gly
            245             250             255

Ser Tyr Lys Cys Ala Cys Leu Ala Gly Tyr Thr Gly Gln Arg Cys Glu
            260             265             270

Asn Leu Leu Glu Ala Gly Lys Ser Lys Ile Xaa Ala Ser Glu Asp Ser
        275             280             285

Leu Ser Val Leu Glu Glu Arg Xaa Cys Xaa Asp Pro Gly Gly Pro Val
    290             295             300

Asn Gly Tyr Gln Lys Ile Thr Gly Gly Pro Gly Leu Ile Asn Gly Arg
305             310             315             320

His Ala Lys


<210> 1403
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1403
Met Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val Gln Ala
  1               5               10              15

Ile Leu Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe
```

970

```
              20                  25                  30

Phe Val Phe Val Val Glu Thr Gly Phe His His Val Ser Gln Ala Gly
        35              40              45

Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr
    50              55              60

Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe
65              70              75              80
```

<210> 1404
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1404
```
Lys Leu Arg Leu Arg Glu Val Lys Ser Ile Ala Gln Gly His Val Ala
 1               5               10              15

Arg Ile Trp Gln Ser His Asp Ser Asp Pro Gly Leu Leu Ile Leu Ile
        20              25              30

Pro Val Ser Phe Leu Ala Tyr His Val Ala Ser Lys Asp Cys Ser Ser
        35              40              45

Leu Phe Thr Arg Lys Leu Phe Leu Pro Asn Leu His Leu His Leu Thr
    50              55              60

Pro Ser Phe Leu Lys His Tyr Val Cys Val Phe Ile Ser Ile Ile Phe
65              70              75              80

Ile Val Phe Gly Ile His Val Leu Val Cys Val Trp Lys Lys Asn Leu
            85              90              95

Phe Tyr Gln Leu Ala Leu Gly Pro Thr Trp Lys Lys Lys Ser Leu Asn
            100             105             110

Val Xaa Ala Met Tyr Ser Leu Lys Met
        115             120
```

<210> 1405
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1405
Met Ala Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Arg Val Gln Ala
 1   5   10   15

Ile Leu Leu Leu Gly Leu Gln His Met Pro Pro Cys Pro Asp Tyr Phe
              20   25   30

Phe Val Phe Val Val Glu Thr Gly Phe His His Val Ser Gln Ala Gly
          35   40   45

Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser His Thr
     50   55   60

Ala Gly Ile Thr Gly Met Ser His Arg Ser Trp Pro Leu Phe Leu Phe
 65   70   75   80

<210> 1406
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1406
Ile Trp Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr
 1   5   10   15

Thr Ser Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys
              20   25   30

Leu Val Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly
          35   40   45

Met Met Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg
     50   55   60

Tyr Val Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu
 65   70   75   80

972

Cys Xaa Phe

<210> 1407
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1407
Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser
  1   5   10   15

Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val
                20   25   30

Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met
            35   40   45

Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val
        50   55   60

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp
 65   70   75   80

Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile
                85   90

<210> 1408
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1408
Met His Phe Ile Ser Phe Leu Tyr Pro Ile Ala Leu Ala Thr Thr Ser
  1   5   10   15

Ser Thr Val Leu Asn Arg Ser Gly Glu Cys Gly His Pro Cys Leu Val
                20   25   30

Pro Val Leu Arg Glu Asn Ala Phe Ser Leu Ser Pro Phe Gly Met Met
            35   40   45

Phe Ala Val Gly Leu Ser Tyr Met Ala Phe Phe Thr Leu Arg Tyr Val
        50   55   60

Pro Ser Val Pro Ile Leu Leu Arg Val Phe Ile Ile Gln Glu Cys Trp
 65   70   75   80

```
Ile Leu Ser Asn Ala Phe Ser Ala Ser Gly Glu Met Ile Ile
                 85                      90


<210> 1409
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1409
Met Ile Leu Ile Arg Lys Leu Phe Leu Arg Arg Cys His Trp Gly Gly
 1               5                   10                  15


Trp Leu Leu Pro Pro Ala Arg Ala Ser Cys Ser Gly Lys His Ser Leu
                20                  25                  30


Ser His Ser Cys Arg Gly Pro Arg Val Gln Arg Pro Pro His Pro Arg
             35                  40                  45


Phe Trp Ala Gly Thr Leu Ala Pro Gly Pro Cys Pro Gly Leu Trp Cys
     50                  55                  60


Leu Pro Gly Leu Val Gln Val Asp Val Leu Ala Ala Gly Arg Cys Asp
 65                  70                  75                  80


His Leu Ser Cys Leu Pro Pro Leu Cys Pro Gln Ala Phe Leu Leu
                 85                  90                  95



<210> 1410
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1410
Met Pro Gly Cys Val Phe Cys Phe Leu Thr Leu Leu Phe His Ser Leu
 1               5                   10                  15


Ser Val Gly Gln Tyr Cys Cys Leu Ile Cys Val Cys Phe Val Leu Tyr
                20                  25                  30


Val Tyr Thr Gln Ile His Thr Arg Ile His Ile His Thr His Lys His
             35                  40                  45


Phe Phe Phe Pro Trp Arg Gln Gly Ile Ala Leu Ser Pro Arg Leu Glu
     50                  55                  60


Tyr Ser Ser Ala Ile Met Thr His Arg Leu Ile Ala Ala Leu Ala Ser
 65                  70                  75                  80
```

Gln Ala Gln Ala Ile Leu Pro Pro Gln Pro Ser Glu
                85   90

<210> 1411
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1411
Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
 1   5   10   15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu
                20   25   30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile
                35   40   45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro
     50   55   60

Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala
 65   70   75   80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val
                85   90   95

Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val
                100   105   110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met
                115   120   125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala
     130   135   140

Pro Glu Glu Glu Glu Asn Ala Pro Ala His Pro Pro Cys Cys Leu Pro
145   150   155   160

975

Gln Thr Ser Pro Arg Ser His Asn Glu Ile Phe Val Glu Thr Glu Ala
                165   170   175

Val Val Ser Val Tyr Met Leu Phe Ile Glu Glu Val Phe Trp Gln Lys
            180   185   190

Ser Phe Val Leu Phe Phe Ser Gly Lys Lys Arg Lys Lys Ile Arg Leu
            195   200   205

Ser Glu Ala Cys Phe Lys Glu Ala Leu Lys Cys Gly Leu Gly Phe Leu
    210   215   220

Ser
225

<210> 1412
<211> 172
<212> PRT
<213> Homo sapiens

<400> 1412
Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
  1   5   10   15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu
            20   25   30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile
            35   40   45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro
        50   55   60

Ile Lys Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala
 65   70   75   80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val
            85   90   95

Gly Val Ile Ile Ile Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val
            100   105   110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met
        115   120   125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala
    130   135   140

Pro Glu Glu Glu Glu Glu Trp Pro Leu Pro Thr Leu Pro Ala Ala Cys
145   150   155   160

976

His Arg Gln Ala Leu Glu Ala Thr Met Arg Phe Leu
            165   170

<210> 1413
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1413
Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu Leu Val Cys
 1   5   10   15

Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr Tyr Thr Leu
            20   25   30

Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly Val Thr Ile
            35   40   45

Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu His Arg Pro
        50   55   60

Ile Xaa Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala
 65   70   75   80

Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val Cys Gly Val
            85   90   95

Gly Val Ile Ile Xaa Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val
            100   105   110

Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr Glu Ser Met
            115   120   125

Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala
            130   135   140

Pro Glu Glu Glu Glu Asn Ala Pro Ala His Pro Pro Cys Cys Leu Pro
145   150   155   160

977

Gln Thr Ser Pro Arg Ser His Asn Glu Ile Phe Val Glu Thr Glu Ala
                165   170   175

Val Val Ser Val Tyr Met Leu Phe Ile Glu Glu Val Phe Trp Gln Lys
                180   185   190

Ser Phe Val Leu Phe Phe Ser Gly Lys Lys Arg Lys Lys Ile Arg Leu
                195   200   205

Ser Glu Ala Cys Phe Lys Glu Ala Leu Lys Cys Gly Leu Gly Phe Leu·
    210   215   220

Ser
225

<210> 1414
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1414
Lys Asp Lys Cys Ile Leu Leu Lys Arg Gln Ser Xaa Thr His Glu Glu
  1   5   10   15

Gln Cys Lys Leu Lys Pro Asn Gln Arg Leu Gly Val Ala Ala Met Pro
                20   25   30

Val Ile Pro Ala Leu Trp Glu Ala Glu Val Gly Arg Leu Leu Glu Ile
                35   40   45

Arg Ser Leu Ser Leu Gly Asn Ile Val Lys Pro Cys Leu Tyr Lys Lys
    50   55   60

Tyr Lys Asn
 65

<210> 1415
<211> 587
<212> PRT
<213> Homo sapiens

<400> 1415
Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys

978

```
      1               5                  10                  15

   Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr
                20                  25                  30

   Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe
                35                  40                  45

   Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser
                50                  55                  60

   Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys
   65                  70                  75                  80

   Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp
                85                  90                  95

   Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val
                100                 105                 110

   Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser
                115                 120                 125

   Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp
        130                 135                 140

   Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro
   145                 150                 155                 160

   Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp
                165                 170                 175

   Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr
                180                 185                 190

   Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu
                195                 200                 205

   Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser
        210                 215                 220

   Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu
   225                 230                 235                 240

   Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys
                245                 250                 255

   Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile
                260                 265                 270

   Leu Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser
        275                 280                 285
```

979

```
Ile Val Ile Gln Ser Leu Asn Lys Thr Leu Thr Arg Arg Glu Asp Thr
    290               295               300

Asp Val Leu Gln Pro Thr Leu Val Asn Ala Gly His Phe Ser Leu Cys
305               310               315               320

Val Asn Val Val Leu Glu Val Lys Tyr Ser Leu Thr Tyr Thr Asp Ala
            325               330               335

Gly Glu Val Thr Lys Ala Asp Leu Ser Phe Val Leu Gly Thr Val Ser
            340               345               350

Ser Val Val Val Pro Leu Gln Gln Lys Phe Glu Ile His Phe Leu Gln
            355               360               365

Glu Asn Thr Gln Pro Val Pro Leu Ser Gly Asn Pro Gly Tyr Val Val
    370               375               380

Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro His Lys Gly Ser Gly Ile
385               390               395               400

Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu Thr Ile Leu His Ser Thr
            405               410               415

Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu
            420               425               430

Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala
        435               440               445

Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly
    450               455               460

Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln
465               470               475               480

Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn
            485               490               495

Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys
            500               505               510

Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn
        515               520               525

Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly
    530               535               540

Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val
545               550               555               560
```

Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala
                565   570   575

Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val
            580   585

<210> 1416
<211> 157
<212> PRT
<213> Homo sapiens

<400> 1416
Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys
  1   5   10   15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr
                20   25   30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe
            35   40   45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser
        50   55   60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys
65   70   75   80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp
                85   90   95

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val
            100   105   110

Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser
            115   120   125

Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp
        130   135   140

Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn
145   150   155

<210> 1417
<211> 587
<212> PRT
<213> Homo sapiens

<400> 1417

981

Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys
 1   5   10   15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr
            20   25   30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe
        35   40   45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser
    50   55   60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys
65   70   75   80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp
                85   90   95

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val
            100   105   110

Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser
        115   120   125

Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp
        130   135   140

Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro
145   150   155   160

Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp
            165   170   175

Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr
        180   185   190

Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu
        195   200   205

Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser
    210   215   220

Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu
225   230   235   240

Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys
            245   250   255

Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile
        260   265   270

Leu Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser

982

```
           275                    280                    285

Ile Val Ile Gln Ser Leu Asn Lys Thr Leu Thr Arg Arg Glu Asp Thr
    290             295             300

Asp Val Leu Gln Pro Thr Leu Val Asn Ala Gly His Phe Ser Leu Cys
305     ·           310             315             320

Val Asn Val Val Leu Glu Val Lys Tyr Ser Leu Thr Tyr Thr Asp Ala
            325             330             335   ·

Gly Glu Val Thr Lys Ala Asp Leu Ser Phe Val Leu Gly Thr Val Ser
            340             345             350

Ser Val Val Val Pro Leu Gln Gln Lys Phe Glu Ile His Phe Leu Gln
            355             360             365

Glu Asn Thr Gln Pro Val Pro Leu Ser Gly Asn Pro Gly Tyr Val Val
    370             375             380

Gly Leu Pro Leu Ala Ala Gly Phe Gln Pro His Lys Gly Ser Gly Ile
385             390             395             400

Ile Gln Thr Thr Asn Arg Tyr Gly Gln Leu Thr Ile Leu His Ser Thr
            405             410             415

Thr Glu Gln Asp Cys Leu Ala Leu Glu Gly Val Arg Thr Pro Val Leu
            420             425             430

Phe Gly Tyr Thr Met Gln Ser Gly Cys Lys Leu Arg Leu Thr Gly Ala
        435             440             445

Leu Pro Cys Gln Leu Val Ala Gln Lys Val Lys Ser Leu Leu Trp Gly
    450             455             460

Gln Gly Phe Pro Asp Tyr Val Ala Pro Phe Gly Asn Ser Gln Ala Gln
465             470             475             480

Asp Met Leu Asp Trp Val Pro Ile His Phe Ile Thr Gln Ser Phe Asn
            485             490             495

Arg Lys Asp Ser Cys Gln Leu Pro Gly Ala Leu Val Ile Glu Val Lys
        500             505             510

Trp Thr Lys Tyr Gly Ser Leu Leu Asn Pro Gln Ala Lys Ile Val Asn
    515             520             525

Val Thr Ala Asn Leu Ile Ser Ser Ser Phe Pro Glu Ala Asn Ser Gly
    530             535             540

Asn Glu Arg Thr Ile Leu Ile Ser Thr Ala Val Thr Phe Val Asp Val
545             550             555             560
```

Ser Ala Pro Ala Glu Ala Gly Phe Arg Ala Pro Pro Ala Ile Asn Ala
                565   570   575

Arg Leu Pro Phe Asn Phe Phe Phe Pro Phe Val
            580   585

<210> 1418
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1418
Met Val Glu Glu Pro Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu
  1   5   10   15

Leu Ile Thr Val Leu Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn
            20   25   30

Leu Gly Leu Met Ala Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn
        35   40   45

Cys Gly Thr Xaa Lys Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile
    50   55   60

Arg Arg Lys Gly Asn Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val
 65   70   75   80

Leu Val Asn Thr Ser Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser
                85   90   95

984

```
Gly Leu Met Ala Val Ala Ser Phe Thr Ile Gly Ile Cys His Leu Trp
        100                 105                 110

Gly Asp Pro Thr Xaa Gly Pro Cys Ala Pro Arg His Gly Ala Trp Leu
        115                 120                 125

Val Gly Cys Gln Xaa Pro Cys Phe Xaa
    130                 135
```


```
<210> 1419
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1419
Leu Lys Pro Phe Ser Gln Thr Pro Tyr Phe Glu Ser Pro Ser Phe Ser
 1               5                 10                  15

Pro Ser Trp Gly Trp Arg Gln Glu Asp Met Trp Glu Ala Thr Glu Ala
            20                 25                  30

Gly Ser Leu Cys Pro Leu Leu Cys Gly Trp Gln Gly Ser Pro Gly Leu
        35                  40                  45

Ile His Pro Leu Met Glu Pro Gln Glu Arg Arg Ala Pro Pro Lys Gly
    50                  55                  60

Met Gln Leu Ala Ala Pro Leu Ser His Thr Cys Asp Pro Ser Val Arg
 65                  70                  75                  80

Gly His Pro Ala Leu Ala Glu Val Ser Xaa Thr Val Leu Arg Ala Leu
                85                  90                  95

Pro Ser Cys Glu Phe Leu Pro Trp Arg Leu Phe Pro Gly Ala Glu Ser
            100                 105                 110

Gly Pro Ala Ala Lys Leu Gln Ala Ser Gln Gly Trp Gly Gly Cys Gly
        115                 120                 125

Thr Lys Val His Val Gly Pro Ser Thr Gly Cys Ser Arg Ser Trp Val
    130                 135                 140

Pro Arg Ala Trp Gln Val Lys Leu Cys Arg Pro Ser Ala
145                 150                 155
```

985

<210> 1420
<211> 631
<212> PRT
<213> Homo sapiens

<400> 1420
Met Lys Leu Tyr Ala Leu Cys Thr Arg Ala Gln Pro Asp Gly Pro Trp
 1   5   10   15

Leu Lys Trp Thr Asp Lys Asp Ser Leu Leu Phe Met Val Glu Glu Pro
            20   25   30

Gly Arg Phe Leu Pro Leu Trp Leu His Ile Leu Leu Ile Thr Val Leu
            35   40   45

Leu Val Leu Ser Gly Ile Phe Ser Gly Leu Asn Leu Gly Leu Met Ala
        50   55   60

Leu Asp Pro Met Glu Leu Arg Ile Val Gln Asn Cys Gly Thr Glu Lys
65   70   75   80

Glu Arg Arg Tyr Ala Arg Lys Ile Glu Pro Ile Arg Arg Lys Gly Asn
                85   90   95

Tyr Leu Leu Cys Ser Leu Leu Leu Gly Asn Val Leu Val Asn Thr Ser
            100   105   110

Leu Thr Ile Leu Leu Asp Asn Leu Ile Gly Ser Gly Leu Met Ala Val
        115   120   125

Ala Ser Ser Thr Ile Gly Ile Val Ile Phe Gly Glu Ile Leu Pro Gln
    130   135   140

Ala Leu Cys Ser Arg His Gly Leu Ala Val Gly Ala Asn Thr Ile Leu
145   150   155   160

Leu Thr Lys Phe Phe Met Leu Leu Thr Phe Pro Leu Ser Phe Pro Ile
            165   170   175

Ser Lys Leu Leu Asp Phe Phe Leu Gly Gln Glu Ile Arg Thr Val Tyr
            180   185   190

Asn Arg Glu Lys Leu Met Glu Met Leu Lys Val Thr Glu Pro Tyr Asn
        195   200   205

Asp Leu Val Lys Glu Glu Leu Asn Met Ile Gln Gly Ala Leu Glu Leu
    210   215   220

Arg Thr Lys Thr Val Glu Asp Ile Met Thr Gln Leu Gln Asp Cys Phe

986

Met Ile Arg Ser Asp Ala Ile Leu Asp Phe Asn Thr Met Ser Glu Ile
          245   250   255

Met Glu Ser Gly Tyr Thr Arg Ile Pro Val Phe Glu Asp Glu Gln Ser
          260   265   270

Asn Ile Val Asp Ile Leu Tyr Val Lys Asp Leu Ala Phe Val Asp Pro
          275   280   285

Asp Asp Cys Thr Pro Leu Lys Thr Ile Thr Arg Phe Tyr Asn His Pro
          290   295   300

Val His Phe Val Phe His Asp Thr Lys Leu Asp Ala Met Leu Glu Glu
305   310   315   320

Phe Lys Lys Gly Lys Ser His Leu Ala Ile Val Gln Lys Val Asn Asn
          325   330   335

Glu Gly Glu Gly Asp Pro Phe Tyr Glu Val Leu Gly Leu Val Thr Leu
          340   345   350

Glu Asp Val Ile Glu Glu Ile Ile Lys Ser Glu Ile Leu Asp Glu Ser
          355   360   365

Asp Met Tyr Thr Asp Asn Arg Ser Arg Lys Arg Val Ser Glu Lys Asn
          370   375   380

Lys Arg Asp Phe Ser Ala Phe Lys Asp Ala Asp Asn Glu Leu Lys Val
385   390   395   400

Lys Ile Ser Pro Gln Leu Leu Leu Ala Ala His Arg Phe Leu Ala Thr
          405   410   415

Glu Val Ser Gln Phe Ser Pro Ser Leu Ile Ser Glu Lys Ile Leu Leu
          420   425   430

Arg Leu Leu Lys Tyr Pro Asp Val Ile Gln Glu Leu Lys Phe Asp Glu
          435   440   445

His Asn Lys Tyr Tyr Ala Arg His Tyr Leu Tyr Thr Arg Asn Lys Pro
          450   455   460

Ala Asp Tyr Phe Ile Leu Ile Leu Gln Gly Lys Val Glu Val Glu Ala
465   470   475   480

Gly Lys Glu Asn Met Lys Phe Glu Thr Gly Ala Phe Ser Tyr Tyr Gly
          485   490   495

Thr Met Ala Leu Thr Ser Val Pro Ser Asp Arg Ser Pro Ala His Pro
          500   505   510

987

Thr Pro Leu Ser Arg Ser Ala Ser Leu Ser Tyr Pro Asp Arg Thr Asp
        515   520   525

Val Ser Thr Ala Ala Thr Leu Ala Gly Ser Ser Asn Gln Phe Gly Ser
    530   535   540

Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser Val Arg Ala Leu Val
545   550   555   560

Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln Tyr Gln Asn Gly Leu
            565   570   575

Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe Pro Ile Asp Gly Cys
        580   585   590

Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser Glu Leu Pro Val Val
        595   600   605

Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn Ser Leu Leu His Lys
    610   615   620

Ala Ser His Glu Asn Ala Ile
625   630

<210> 1421
<211> 83
<212> PRT
<213> Homo sapiens

<400> 1421
Met Gly Val Arg Val Trp Glu Leu Pro Ala Gln Pro Thr Gly Leu His
  1   5   10   15

Leu Leu Cys Phe Cys Thr Arg Thr Met Leu Leu Ala Leu Lys Leu Pro
            20   25   30

Lys Thr Lys His Ser Phe Pro Asp Pro Tyr Thr Ser Ile Leu Ser Phe
        35   40   45

Ile His Pro Ala Phe Thr Glu Asn Leu Thr Leu Cys Gln Val Ser Val
    50   55   60

Phe Leu Ser Ser Ser Asn Thr Glu Met Asn Gln Met Phe His Gly Val
 65   70   75   80

Ser Phe Arg

<210> 1422
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1422
```
Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr
 1               5                  10                  15

Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu
                20                  25                  30

Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly
            35                  40                  45

Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser
        50                  55                  60

Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr
65                  70                  75                  80

Met Ser Ser Ile Phe Xaa Xaa Ser Leu Asn Val Val Xaa Xaa Phe Xaa
                85                  90                  95

Val Met Val Gly Val Phe Arg
            100
```

989

<210> 1423
<211> 384
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1423
Gln Arg Gln Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His
 1   5   10   15

Gln Glu Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly
                20   25   30

Lys Ala Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro
            35   40   45

Val Leu Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn
        50   55   60

Gln Arg Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala
65   70   75   80

Gly Pro Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Xaa
                85   90   95

Lys Leu Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr
            100   105   110

Val Lys Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro
            115   120   125

Ala Arg Xaa Ala Gly Gly Pro Glu Glu Arg Leu Ala Glu Glu Phe Pro
    130   135   140

Gly Gln Ser Gln Asp Val Thr Gly Gly Ser Gln Asp Arg Lys Lys Pro
145   150   155   160

Gly Lys Glu Val Ala Ala Thr Gly Thr Ser Ile Leu Lys Glu Ala Asn
                165   170   175

```
Trp Leu Val Ala Gly Pro Gly Ala Glu Thr Gly Asp Pro Arg Met Lys
            180                 185               190

Pro Lys Gln Val Ser Arg Asp Leu Gly Leu Ala Ala Asp Leu Pro Gly
            195                 200               205

Gly Ala Glu Gly Ala Ala Ala Gln Pro Gln Ala Val Leu Arg Gln Pro
    210                 215                 220

Glu Leu Arg Val Ile Ser Asp Gly Glu Gln Gly Gly Gln Gln Gly His
225                 230                 235                 240

Arg Leu Asp His Gly Gly His Leu Glu Met Arg Lys Ala Arg Gly Gly
            245                 250               255

Asp His Val Pro Val Ser His Glu Gln Pro Arg Gly Gly Glu Asp Ala
            260                 265               270

Ala Val Gln Glu Pro Arg Gln Arg Pro Glu Pro Glu Leu Gly Leu Lys
    275                 280                 285

Arg Ala Val Pro Gly Gly Gln Arg Pro Asp Asn Ala Lys Pro Asn Arg
    290                 295                 300

Asp Leu Lys Leu Gln Ala Gly Ser Asp Leu Arg Arg Arg Arg Arg Asp
305                 310                 315                 320

Leu Gly Pro His Ala Glu Gly Gln Leu Ala Pro Arg Asp Gly Val Ile
            325                 330                 335

Ile Gly Leu Asn Pro Leu Pro Asp Val Gln Val Asn Asp Leu Arg Gly
            340                 345                 350

Ala Leu Asp Ala Gln Leu Arg Gln Ala Ala Gly Gly Ala Leu Gln Val
            355                 360                 365

Val His Ser Arg Gln Leu Arg Gln Ala Pro Gly Pro Pro Glu Glu Ser
    370                 375                 380
```

<210> 1424
<211> 973
<212> PRT
<213> Homo sapiens

<400> 1424
```
Met Met Ala Ser Ile Gln Ser Phe Ser Ala Met Ala Leu Leu Phe Tyr
  1                 5                 10                15
```

Thr Val Phe Met Phe Val Ile Val Leu Ser Ser Leu Lys His Gly Leu
          20   25   30

Phe Ser Gly Gln Trp Leu Arg Arg Val Ser Tyr Val Arg Trp Glu Gly
          35   40   45

Val Phe Arg Cys Ile Pro Ile Phe Gly Met Ser Phe Ala Cys Gln Ser
      50   55   60

Gln Val Leu Pro Thr Tyr Asp Ser Leu Asp Glu Pro Ser Val Lys Thr
  65   70   75   80

Met Ser Ser Ile Phe Ala Ser Ser Leu Asn Val Val Thr Thr Phe Tyr
              85   90   95

Val Met Val Gly Phe Phe Gly Tyr Val Ser Phe Thr Glu Ala Thr Ala
          100   105   110

Gly Asn Val Leu Met His Phe Pro Ser Asn Leu Val Thr Glu Met Leu
          115   120   125

Arg Val Gly Phe Met Met Ser Val Ala Val Gly Phe Pro Met Met Ile
      130   135   140

Leu Pro Cys Arg Gln Ala Leu Ser Thr Leu Leu Cys Glu Gln Gln Gln
145   150   155   160

Lys Asp Gly Thr Phe Ala Ala Gly Gly Tyr Met Pro Pro Leu Arg Phe
              165   170   175

Lys Ala Leu Thr Leu Ser Val Val Phe Gly Thr Met Val Gly Gly Ile
          180   185   190

Leu Ile Pro Asn Val Glu Thr Ile Leu Gly Leu Thr Gly Ala Thr Met
          195   200   205

Gly Ser Leu Ile Cys Phe Ile Cys Pro Ala Leu Ile Tyr Lys Lys Ile
      210   215   220

His Lys Asn Ala Leu Ser Ser Gln Val Val Leu Trp Val Gly Leu Gly
225   230   235   240

Val Leu Val Val Ser Thr Val Thr Thr Leu Ser Val Ser Glu Glu Val
              245   250   255

Pro Glu Asp Leu Ala Glu Glu Ala Pro Gly Gly Arg Leu Gly Glu Ala
          260   265   270

Glu Gly Leu Met Lys Val Glu Ala Ala Arg Leu Ser Ala Gln Asp Pro
          275   280   285

992

```
Val Val Ala Val Ala Glu Asp Gly Arg Glu Lys Pro Lys Leu Pro Lys
    290                 295                 300

Glu Arg Glu Glu Leu Glu Gln Ala Gln Ile Lys Gly Pro Val Asp Val
305                 310                 315                 320

Pro Gly Arg Glu Asp Gly Lys Glu Ala Pro Glu Glu Ala Gln Leu Asp
                325                 330                 335

Arg Pro Gly Gln Gly Ile Ala Val Pro Val Gly Glu Ala His Arg His
                340                 345                 350

Glu Pro Pro Val Pro His Asp Lys Val Val Val Asp Glu Gly Gln Asp
        355                 360                 365

Arg Glu Val Pro Glu Glu Asn Lys Pro Pro Ser Arg His Ala Gly Gly
    370                 375                 380

Lys Ala Pro Gly Val Gln Gly Gln Met Ala Pro Pro Leu Pro Asp Ser
385                 390                 395                 400

Glu Arg Glu Lys Gln Glu Pro Glu Gln Gly Glu Val Gly Lys Arg Pro
                405                 410                 415

Gly Gln Ala Gln Ala Leu Glu Glu Ala Gly Asp Leu Pro Glu Asp Pro
                420                 425                 430

Gln Lys Val Pro Glu Ala Asp Gly Gln Pro Ala Val Gln Pro Ala Lys
                435                 440                 445

Glu Asp Leu Gly Pro Gly Asp Arg Gly Leu His Pro Arg Pro Gln Ala
    450                 455                 460

Val Leu Ser Glu Gln Gln Asn Gly Leu Ala Val Gly Gly Gly Glu Lys
465                 470                 475                 480

Ala Lys Gly Gly Pro Pro Pro Gly Asn Ala Ala Gly Asp Thr Gly Gln
                485                 490                 495

Pro Ala Glu Asp Ser Asp His Gly Gly Lys Pro Pro Leu Pro Ala Glu
                500                 505                 510

Lys Pro Ala Pro Gly Pro Gly Leu Pro Pro Glu Pro Arg Glu Gln Arg
                515                 520                 525

Asp Val Glu Arg Ala Gly Gly Asn Gln Ala Ala Ser Gln Leu Glu Glu
    530                 535                 540

Ala Gly Arg Ala Glu Met Leu Asp His Ala Val Leu Leu Gln Val Ile
545                 550                 555                 560

Lys Glu Gln Gln Val Gln Gln Lys Arg Leu Leu Asp Gln Gln Glu Lys
```

993

Leu Leu Ala Val Ile Glu Glu Gln His Lys Glu Ile His Gln Gln Arg
            580   585   590

Gln Glu Asp Glu Glu Asp Lys Pro Arg Gln Val Glu Val His Gln Glu
            595   600   605

Pro Gly Ala Ala Val Pro Arg Gly Gln Glu Ala Pro Glu Gly Lys Ala
    610   615   620

Arg Glu Thr Val Glu Asn Leu Pro Pro Leu Pro Leu Asp Pro Val Leu
625   630   635   640

Arg Ala Pro Gly Gly Arg Pro Ala Pro Ser Gln Asp Leu Asn Gln Arg
                645   650   655

Ser Leu Glu His Ser Glu Gly Pro Val Gly Arg Asp Pro Ala Gly Pro
            660   665   670

Pro Asp Gly Gly Pro Asp Thr Glu Pro Arg Ala Ala Gln Gly Lys Leu
            675   680   685

Arg Asp Gly Gln Lys Asp Ala Ala Pro Arg Ala Ala Gly Thr Val Lys
    690   695   700

Glu Leu Pro Lys Gly Pro Glu Gln Val Pro Val Pro Asp Pro Ala Arg
705   710   715   720

Glu Ala Gly Gly Pro Glu Glu Arg Leu Ala Glu Glu Phe Pro Gly Gln
                725   730   735

Ser Gln Asp Val Thr Gly Gly Ser Gln Asp Arg Lys Lys Pro Gly Lys
            740   745   750

Glu Val Ala Ala Thr Gly Thr Ser Ile Leu Lys Glu Ala Asn Trp Leu
    755   760   765

Val Ala Gly Pro Gly Ala Glu Thr Gly Asp Pro Arg Met Lys Pro Lys
    770   775   780

Gln Val Ser Arg Asp Leu Gly Leu Ala Ala Asp Leu Pro Gly Gly Ala
785   790   795   800

Glu Gly Ala Ala Ala Gln Pro Gln Ala Val Leu Arg Gln Pro Glu Leu
                805   810   815

Arg Val Ile Ser Asp Gly Glu Gln Gly Gly Gln Gln Gly His Arg Leu
            820   825   830

Asp His Gly Gly His Leu Glu Met Arg Lys Ala Arg Gly Gly Asp His
            835   840   845

994

```
Val Pro Val Ser His Glu Gln Pro Arg Gly Gly Glu Asp Ala Ala Val
    850                 855                 860

Gln Glu Pro Arg Gln Arg Pro Glu Pro Glu Leu Gly Leu Lys Arg Ala
865                 870                 875                 880

Val Pro Gly Gly Gln Arg Pro Asp Asn Ala Lys Pro Asn Arg Asp Leu
                885                 890                 895

Lys Leu Gln Ala Gly Ser Asp Leu Arg Arg Arg Arg Asp Leu Gly
                900                 905                 910

Pro His Ala Glu Gly Gln Leu Ala Pro Arg Asp Gly Val Ile Gly Leu
            915                 920                 925

Asn Pro Leu Pro Asp Val Gln Val Asn Asp Leu Arg Gly Ala Leu Asp
    930                 935                 940

Ala Gln Leu Arg Gln Ala Ala Gly Gly Ala Leu Gln Val Val His Ser
945                 950                 955                 960

Arg Gln Leu Arg Gln Ala Pro Gly Pro Pro Glu Glu Ser
                965                 970
```

<210> 1425
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1425
```
Met Tyr Leu Gln Ile Pro Val Lys His Met Leu His Ser Gly Tyr Gln
  1               5                  10                  15

Ala Thr Phe Phe Ser Pro Lys Ile Gly Cys Ser Ser Ile Leu Val Phe
```

Val Cys Leu Leu Val Phe Leu Arg Gln Ser Leu Ala Leu Leu Pro Arg
              35   40   45

Leu Glu Tyr Ser Gly Ala Ile Leu Ala His Cys Asn Leu His Leu Leu
        50   55   60

Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr
    65   70   75   80

Gly Met His His His Thr Gln Leu Xaa Phe Cys Thr Phe Ser Arg Xaa
                  85   90   95

Gly Ile Tyr Gln Leu Ala Ser Xaa Ser Pro Asn Pro Asp Leu
            100   105   110

<210> 1426
<211> 57
<212> PRT
<213> Homo sapiens

<400> 1426
Phe Asn Thr Pro Lys Ile Phe Phe Gly Thr Tyr His Arg Gln Gly Thr
  1   5   10   15

Leu Ile Ser Thr Gly Asp Thr Ile Ser Cys Leu Gly Leu Leu Cys Ser
              20   25   30

Ser Ala Ala Arg Glu Gly Ile Ala Ile Cys Arg Ile Leu Lys Lys His
          35   40   45

Lys His Lys Gly Ala Lys Leu Tyr Ile
    50   55

<210> 1427
<211> 127
<212> PRT
<213> Homo sapiens

<400> 1427
Met Leu His Ser Gly Tyr Gln Ala Thr Phe Phe Ser Pro Lys Ile Gly
  1   5   10   15

Cys Ser Ser Ile Leu Val Phe Val Cys Leu Leu Val Phe Leu Arg Gln
              20   25   30

Ser Leu Ala Leu Leu Pro Arg Leu Glu Tyr Ser Gly Ala Ile Leu Ala

```
                35                    40                       45

His Cys Asn Leu His Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala
       50                  55                  60

Ser Pro Val Ala Gly Ile Thr Gly Met His His His Thr Gln Leu Phe
 65                  70                  75                      80

Phe Cys Thr Phe Ser Arg Asp Gly Ile Leu Pro Cys Trp Pro Gly Trp
                 85                  90                  95

Ser Pro Thr Pro Asp Leu Arg Gln Ser Thr Leu Leu Ser Leu Pro Lys
             100                 105                 110

Cys Trp Asp Tyr Arg His Glu Pro Leu Arg Pro Ala Gln Ala Phe
         115                 120                 125
```

<210> 1428
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1428
```
Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met
 1                   5                  10                  15

Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys
             20                  25                  30

Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys
         35                  40                  45

Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala
     50                  55                  60

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys
 65                  70                  75                      80
```

<210> 1429
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

997

<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1429
His Phe Ser Phe Trp Phe Ile His Phe Pro His Phe His Leu Lys Ile
 1   5   10   15

Leu Thr Lys Cys Leu Ala Glu Phe Ser Lys Tyr Asn Asn Phe Thr Leu
            20   25   30

Pro Ala Asp Asn Glu Xaa Ile Arg Val Gln Asn Pro Phe Gln Leu Ser
            35   40   45

Lys His Leu Leu Ser Leu Tyr Phe Val Ser Asp Thr Gly Val Lys Phe
        50   55   60

Trp Lys Cys Lys Arg Asn Leu His Leu
 65   70

<210> 1430
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1430
Met Phe Ile Pro Gln Leu Pro Ala Leu Gly Leu Thr Ser Leu Met Met
 1   5   10   15

Ala Ile Ser Leu Asn Val Ser Val Ser Gln Gly Leu Ser Ser Ala Cys
            20   25   30

Met His Leu Arg Met Gln Ala Cys Lys Pro Thr Arg Val Gln Ala Lys
            35   40   45

Val Leu Gly Asp Trp Val Gln Glu Asn His Val Ile Glu Asn Gly Ala
        50   55   60

Thr Leu Arg Pro Trp Gln Asp Pro Leu His Asp Lys Tyr Arg Met Lys
 65   70   75   80

<210> 1431
<211> 26
<212> PRT
<213> Homo sapiens

998

<400> 1431
Met Leu Arg Trp His Leu Trp Ser Trp Phe Cys Trp Phe Cys Leu Ser
 1   5   10   15

Glu Ala Gly Val Leu Leu Asp Leu Pro Thr
              20   25

<210> 1432
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1432
Xaa Met Ser Arg Gln His Arg Leu Asn Pro His Gly Pro Asp Pro Ala
 1   5   10   15

Ala Pro His Arg Ala Cys Arg Leu Xaa Ser Pro Arg Gln Val Thr Trp
              20   25   30

Leu Thr Pro Ala Glu Ala Leu Pro Leu Xaa Pro Cys Pro Ser Gln Cys
        35   40   45

Gly Ala His Cys Arg Gln His Gly Pro Glu Arg Glu Gly Ser Ala Xaa
    50   55   60

999

Pro Ala Ala Leu Leu Arg Pro Gly Leu Pro Val Phe Gly His Xaa Leu
65   70   75   80

Arg Leu Ser Gln

<210> 1433
<211> 26
<212> PRT
<213> Homo sapiens

<400> 1433
Met Leu Arg Trp His Leu Trp Ser Trp Phe Cys Trp Phe Cys Leu Ser
1   5   10   15

Glu Ala Gly Val Leu Leu Asp Leu Pro Thr
                20   25

<210> 1434
<211> 139
<212> PRT
<213> Homo sapiens

<400> 1434
Met Ala Leu Arg Met Leu Trp Ala Gly Gln Ala Lys Gly Ile Leu Gly
1   5   10   15

Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Leu Gln His Pro
                20   25   30

Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr
                35   40   45

Glu Gly Lys Tyr Phe Thr Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys
        50   55   60

Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr
65   70   75   80

Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu
                85   90   95

Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu
                100   105   110

Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr
                115   120   125

Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser
    130   135

<210> 1435
<211> 139
<212> PRT
<213> Homo sapiens

<400> 1435
Met Ala Leu Arg Met Leu Trp Ala Gly Gln Ala Lys Gly Ile Leu Gly
  1   5   10   15

Gly Trp Gly Ile Ile Cys Leu Val Met Ser Leu Leu Leu Gln His Pro
              20   25   30

Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala Gln Ala Pro Cys His Tyr
          35   40   45

Glu Gly Lys Tyr Phe Thr Leu Gly Glu Ser Trp Leu Arg Lys Asp Cys
      50   55   60

Phe His Cys Thr Cys Leu His Pro Val Gly Val Gly Cys Cys Asp Thr
 65   70   75   80

Ser Gln His Pro Ile Asp Phe Pro Ala Gly Cys Glu Val Arg Gln Glu
              85   90   95

Ala Gly Thr Cys Gln Phe Ser Leu Val Gln Lys Ser Asp Pro Arg Leu
              100   105   110

Pro Cys Lys Gly Gly Gly Pro Asp Pro Glu Trp Gly Ser Ala Asn Thr
          115   120   125

Pro Val Pro Gly Ala Pro Ala Pro His Ser Ser
    130   135

<210> 1436
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1436
Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
  1   5   10   15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
              20   25   30

1001

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
        35   40   45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
    50   55   60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
65   70   75   80

<210> 1437
<211> 145
<212> PRT
<213> Homo sapiens

<400> 1437
Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu
 1   5   10   15

Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr
            20   25   30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro
        35   40   45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe
    50   55   60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala
65   70   75   80

Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu
            85   90   95

Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys
            100   105   110

Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr
            115   120   125

Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu
    130   135   140

Gln
145

<210> 1438
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1438
Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
 1   5   10   15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
                20   25   30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
                35   40   45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
        50   55   60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
65   70   75   80

<210> 1439
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1439
Met Ala Ser Gln Val Pro Ser Ser Pro Phe Gln Ser Phe Phe Val Phe
 1   5   10   15

Val Phe Val Phe Leu Arg Pro Ser His Ser Val Ala Gln Ala Gly Val
                20   25   30

Pro Leu His Phe Tyr Phe Phe Ile Gln Gln Val Leu Ile Lys Cys Ala
                35   40   45

Leu Tyr Gln Val Leu Ser Ser Xaa Leu Gly Tyr Asn Gly Asp Gln Gly
        50   55   60

Asp Cys Arg Phe Trp Gln Gly Lys Leu Thr Ser Asn Thr Ala Thr Arg
65   70   75   80

1003

His Ser Glu Thr Leu Ser Leu Leu Glu Glu Leu
                    85   90

<210> 1440
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1440
Met Ser Ala Lys Gln Val Thr Ser Gln Ser Ser Leu Ser Glu Asn Asp
 1   5   10   15

Gly Phe Gln Ala Phe Val Trp Trp Leu Leu Gly Ile Gly Ala Leu Thr
            20   25   30

Phe Ala Leu Leu Met Ser Ala Arg Met Gly Ile Phe Gln Glu Thr Leu
            35   40   45

Tyr Lys Arg Phe Gly Lys His Ser Lys Glu Ala Leu Phe Tyr Asn His
    50   55   60

Ala Leu Pro Leu Pro Gly Phe Val Phe Leu Ala Ser Asp Ile Tyr Asp
 65   70   75   80

His Ala Val Leu Phe Asn Lys Ser Glu Leu Tyr Glu Ile Pro Val Ile
                85   90   95

Gly Val Thr Leu Pro Ile Met Trp Phe Tyr Leu Leu Met Asn Ile Ile
            100   105   110

Thr Gln Tyr Val Cys Ile Arg Gly Val Phe Ile Leu Thr Thr Gly Met
            115   120   125

Arg Leu Pro Xaa Arg His Ala Arg Ser
    130   135

<210> 1441
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

1004

<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1441
Pro Tyr Pro Phe Cys Xaa Pro Ser Pro Phe Pro Ser Ser Ala Ala Pro
 1   5   10   15

His Ser Gln Ser Asp Ala Ala Gly Thr Thr Ile Thr Arg Ser Gly Gln
             20   25   30

Val Asn Arg Asp Thr Ser Asn Ser Arg Ala Gly Leu Pro Pro Ala Phe
         35   40   45

Trp Glu Gly Lys Arg Cys Ser Pro Glu Leu Ile Pro Ser Asp Ser Ala
     50   55   60

Ala Arg Leu Val Gly Leu Leu Phe Pro Thr Phe Cys Phe Phe Phe Phe
 65   70   75   80

Leu Cys Lys Ser Gln Met Leu Leu Ser Ile Ala Phe Cys Asp
             85   90

<210> 1442
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1442
Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His
 1   5   10   15

Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn
             20   25   30

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala
             35   40   45

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys
     50   55   60

Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala
 65   70   75   80

Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile
             85   90   95

1005

```
Lys Trp Cys Leu Phe Val Cys Xaa
            100


<210> 1443
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1443
Met Gly Phe Ser Gly Pro Ala Leu Leu Phe Pro Ile Phe Leu Leu His
 1               5                  10                  15

Ser Ala Ser Ser Met Leu Ser His Thr Ser Thr Ile Val Gln Thr Asn
                20                  25                  30

Lys Gln Thr Glu Glu Arg Lys Asp Gly Glu Phe Cys Asn Arg Ala Ala
            35                  40                  45

Lys Ser Gln Ser Lys Gln Glu Glu Val Glu Gly Thr Lys Thr Asn Lys
        50                  55                  60

Gln Arg Cys Leu Asp Tyr Ser Thr Val Asp Met Pro Ser Ile Leu Ala
 65                  70                  75                  80

Cys Ala Pro Leu Ser Ile Thr Gly His Asn Ser Glu Glu Val Gln Ile
                85                  90                  95

Lys Trp Cys Leu Phe Val Cys Xaa
            100


<210> 1444
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1444
Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser
 1               5                  10                  15

Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu
                20                  25                  30
```

Arg Val Leu Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro
          35   40   45

Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr
          50   55   60

Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu
 65   70   75   80

Arg Gly Arg Tyr Ile Gly Ser Ser
                  85

<210> 1445
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1445
Ser Gln Arg Ser Gly Arg Leu Arg Gln Glu Asp His Leu Arg Ser Gly
 1   5   10   15

Val Gln Cys Gly Gln His Ser Lys Thr Leu Ser Leu Gln Lys Asn Leu
                  20   25   30

Lys Leu Ser Trp His Trp Trp Arg Met Ala Val Val Pro Ala Thr Trp
          35   40   45

Glu Val Glu Val Gly Gly Ser Leu Glu Pro Arg Ser Ser Ser Leu Gln
          50   55   60

<210> 1446
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1446
Met Trp Gly Glu Pro Gly Gly Arg Val Ser Ala Leu Ala Gln Val Ser
 1   5   10   15

Ala Gly Tyr Ala Pro Ser Gly Ser Gln Lys Cys Phe Leu Gln Gly Leu
                  20   25   30

Arg Val Leu Leu Leu Val Val Gln Leu Ser Ala Pro His Leu Cys Pro
          35   40   45

1007

Asn Pro Asn Ser Cys Gln Val Leu Ala Ser Tyr Phe Ser Cys Leu Tyr
    50   55   60

Ser Tyr Trp Asp Thr Ile Glu Ser Pro Arg Ala Val Gly Ser His Leu
65   70   75   80

Arg Gly Arg Tyr Ile Gly Ser Ser
                85

<210> 1447
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1447
Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu
  1   5   10   15

Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys
                20   25   30

Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
                35   40   45

Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Xaa Phe Gln Ala
    50   55   60

Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu
65   70   75   80

Asn Phe

<210> 1448
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1448
Met Ala Ser His Ser Phe Leu Leu Asp Ile Tyr Leu Val Leu Ser Leu
  1   5   10   15

Trp Lys Cys Ile Pro Gly Leu Val Gln Asp Val Phe Leu Glu Met Lys

1008

Val Leu Thr Glu Ser Ala Leu Cys Lys Val Met Thr Leu Glu Pro Leu
        35   40   45

Gln His Ser Val Leu Val Phe Arg Cys Trp Gln Ser Pro Phe Gln Ala
    50   55   60

Lys Ser Ser Arg Pro Cys Gln Ala Ser Ile Phe Ala Tyr Tyr Thr Leu
65   70   75   80

Asn Phe

<210> 1449
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1449
Met Gln Ser Phe His His Pro Leu Arg Ile Leu Leu Trp Leu Pro Leu
1   5   10   15

Val Thr Lys Lys Ser Leu Cys Pro Val His Lys Thr Met Thr Gln Leu
            20   25   30

Ser Leu Val Leu Ala Ser Leu Ser Asn Ser Leu Ser Phe Gly Tyr Pro
        35   40   45

Gly Phe Val Arg Ala Asn Arg Gln Thr Ser Leu Ile Gly Glu Phe Leu
    50   55   60

Gly Gly Gly Gly Trp His Ala Phe Ala Tyr Cys Phe Leu Ser Ala Glu
65   70   75   80

Asn Ala Ser Leu Ser Leu Ala Val Ser Ala Thr Pro Pro Asp Leu Val
                85   90   95

Ser Leu Ile Cys Leu Ser Gln
            100

<210> 1450
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1450
Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu
 1   5   10   15

Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu
            20   25   30

Xaa Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala
            35   40   45

Leu Leu
    50

<210> 1451
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1451
Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg Leu Leu Gln
1   5   10   15

Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly Leu Xaa Ala
                20   25   30

Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr Ala Leu Tyr
            35   40   45

Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln Ile Lys Ala
        50   55   60

Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg Asn Ser Gly
65   70   75   80

Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln Ala Tyr Val
                85   90   95

Val Leu Gly Ser Ala Pro Ser Val Ala Ser Met Ile Ala Ala Tyr Ser
            100   105   110

Ala Thr Xaa Xaa Cys Ala Asp Leu Ala Xaa Gly Leu Gln Xaa Xaa Arg
        115   120   125

His Pro
130

<210> 1452
<211> 30
<212> PRT
<213> Homo sapiens

<400> 1452
Leu Asn Pro Trp Pro Leu Ile Val Tyr Leu Cys Trp Asp Pro Lys Glu
1   5   10   15

Leu Tyr Ser Pro Cys Pro Pro Arg Pro Ala Gln Leu Ser Arg
            20   25   30

<210> 1453
<211> 226
<212> PRT
<213> Homo sapiens

<400> 1453
Met Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp Arg

1011

```
      1                    5                      10                       15

    Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser Leu Gly
                20                  25                  30

    Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr Ser Arg Thr
                35                  40                  45

    Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala Thr Gln Ala Gln
            50              55                  60

    Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu Tyr His Pro Asp Arg
    65                  70                  75                      80

    Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg Phe Thr Arg Ile Ser Gln
                    85                  90                  95

    Ala Tyr Val Val Leu Gly Ser Ala Thr Leu Arg Arg Lys Tyr Asp Arg
                100                 105                 110

    Gly Leu Leu Ser Asp Glu Asp Leu Arg Gly Pro Gly Val Arg Pro Ser
            115                 120                 125

    Arg Thr Pro Ala Pro Asp Pro Gly Ser Pro Arg Thr Pro Pro Pro Thr
            130                 135                 140

    Ser Arg Thr His Asp Gly Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr
    145                 150                 155                     160

    Met Phe Asn Phe Asp Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu
                    165                 170                 175

    Glu Arg Glu Arg Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg
                180                 185                 190

    Gln Glu Tyr Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp
                195                 200                 205

    Thr Ala Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Gly Phe
        210                 215                 220

    Tyr Ile
    225


    <210> 1454
    <211> 302
    <212> PRT
    <213> Homo sapiens

    <400> 1454
```

```
Met Leu Val Thr Asn Arg Pro Gly Val Leu Lys Glu Pro Lys Leu Met
 1               5                   10                  15

Gly Ala Ile Ser Phe Phe Ile Phe Phe Phe Thr Leu Leu Val Leu Ala
            20              25                  30

Arg Gln Asn Glu Tyr Tyr Cys Arg Leu Asp Phe Leu Trp Lys Lys Lys
        35                  40                  45

Leu Arg Gln Glu Arg Glu Glu Thr Glu Thr Met Glu Asn Leu Thr Arg
    50                  55                  60

Leu Leu Leu Glu Asn Val Leu Pro Ala His Val Ala Pro Gln Phe Ile
65                  70                  75                      80

Gly Gln Asn Arg Arg Asn Glu Asp Leu Tyr His Gln Ser Tyr Glu Cys
            85                  90                  95

Val Cys Val Leu Phe Ala Ser Val Pro Asp Phe Lys Glu Phe Tyr Ser
            100             105             110

Glu Ser Asn Ile Asn His Glu Gly Leu Glu Cys Leu Arg Leu Leu Asn
        115             120             125

Glu Ile Ile Ala Asp Phe Asp Glu Leu Leu Ser Lys Pro Lys Phe Ser
    130             135             140

Gly Val Glu Lys Ile Lys Thr Ile Gly Ser Thr Tyr Met Ala Ala Thr
145             150             155             160

Gly Leu Asn Ala Thr Ser Gly Gln Asp Ala Gln Gln Asp Ala Glu Arg
            165             170             175

Ser Cys Ser His Leu Gly Thr Met Val Glu Phe Ala Val Ala Leu Gly
            180             185             190

Ser Lys Leu Asp Val Ile Asn Lys His Ser Phe Asn Asn Phe Arg Leu
        195             200             205

Arg Val Gly Leu Asn His Gly Pro Val Val Ala Gly Val Ile Gly Ala
    210             215             220

Gln Lys Pro Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala Ser
225             230             235             240

Arg Met Glu Ser Thr Gly Val Leu Gly Lys Ile Gln Val Thr Glu Glu
            245             250             255

Thr Ala Trp Ala Leu Gln Ser Leu Gly Tyr Thr Cys Tyr Ser Arg Gly
            260             265             270

Val Ile Lys Val Lys Gly Lys Gly Gln Leu Cys Thr Tyr Phe Leu Asn
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                  275                    280                    285
Thr Asp Leu Thr Arg Thr Gly Pro Pro Ser Ala Thr Leu Gly
    290                    295                    300



<210> 1455
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1455
Met Gly Pro Phe Phe Pro Tyr Ser Leu Leu Xaa Phe Phe Pro Cys Ser
  1               5                  10                  15

Phe Ser Ser Pro Ser Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly
                20                  25                  30

Cys Ser Leu Phe Pro Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe
            35                  40                  45

Ser Gln Ser Leu Ser Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp
        50                  55                  60

Cys Phe Phe Thr Leu Gly Pro Ser Ser Tyr Leu Leu
 65                  70                  75



<210> 1456
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1456
Thr Leu Thr Gln His Gln Gly Ala His Leu Gly Pro Phe Leu Asp Met
  1               5                  10                  15

Ser Phe Leu His Tyr His Ser His Glu Pro Pro Thr Ser Gly Ile Ala
                20                  25                  30

Asp Gln Gly Trp Gly Glu Asn Val Ala Cys Cys Phe Leu Val Leu Val
            35                  40                  45

Ile Ile Tyr Leu Asn Lys Gln Cys Cys Lys Tyr Leu Pro
        50                  55                  60
```

<210> 1457
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1457
Met Arg Leu Ser Cys Pro Arg Xaa Pro Gly Trp Met Gly Pro Phe Phe
 1   5   10   15

Pro Tyr Ser Leu Leu Ser Phe Phe Pro Cys Ser Phe Ser Ser Pro Ser
                20   25   30

Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly Cys Ser Leu Phe Pro
            35   40   45

Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe Ser Gln Ser Leu Ser
        50   55   60

Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp Cys Phe Phe Thr Leu
 65   70   75   80

Gly Pro Ser Ser Ile Phe Val Phe Ser Val Tyr Pro Leu Pro Asp Thr
                85   90   95

Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu Asn Gln Cys
            100   105   110

<210> 1458
<211> 99
<212> PRT
<213> Homo sapiens

<400> 1458
Met Gly Pro Phe Phe Pro Tyr Ser Leu Leu Ser Phe Phe Pro Cys Ser
 1   5   10   15

Phe Ser Ser Pro Ser Phe Ile Phe Leu Leu Leu Ile Leu Lys Thr Gly
                20   25   30

Cys Ser Leu Phe Pro Cys Cys Pro Ile Ser Pro Leu Cys Pro Tyr Phe
            35   40   45

1015

Ser Gln Ser Leu Ser Pro Leu Lys Ser Arg Ala Gly Arg Cys Tyr Trp
    50   55   60

Cys Phe Phe Thr Leu Gly Pro Ser Ser Ile Phe Val Phe Ser Val Tyr
65   70   75   80

Pro Leu Pro Asp Thr Ser Phe Ser Pro Ser Leu Gly Pro Lys Ala Glu
                85   90   95

Asn Gln Cys

<210> 1459
<211> 98
<212> PRT
<213> Homo sapiens

<400> 1459
Met Phe Ile Cys Phe Leu Thr Leu Leu Thr Pro Gly Phe Ser Leu Ser
1   5   10   15

Leu Arg Arg Lys His Tyr Leu Ile Thr Phe Arg Trp Phe Thr Tyr Ser
                20   25   30

Val Lys Asn Met Cys Lys Tyr Phe Val Gln Ser Pro Val Ser Asn Lys
        35   40   45

Gln Pro Tyr Val Val Thr Asn His Leu Phe Cys His Ser Val Leu Gly
    50   55   60

His Arg Ser Val Gly Met Val Ser Asp Leu Asp Ala Pro Thr Phe His
65   70   75   80

Val Arg Pro Arg Thr Val Pro Trp Ser Val Asp Ser Trp Ser Ala Leu
                85   90   95

Thr Gly

<210> 1460
<211> 98
<212> PRT
<213> Homo sapiens

<400> 1460
Met Phe Ile Cys Phe Leu Thr Leu Leu Thr Pro Gly Phe Ser Leu Ser
1   5   10   15

Leu Arg Arg Lys His Tyr Leu Ile Thr Phe Arg Trp Phe Thr Tyr Ser
            20   25   30

Val Lys Asn Met Cys Lys Tyr Phe Val Gln Ser Pro Val Ser Asn Lys
            35   40   45

Gln Pro Tyr Val Val Thr Asn His Leu Phe Cys His Ser Val Leu Gly
        50   55   60

His Arg Ser Val Gly Met Val Ser Asp Leu Asp Ala Pro Thr Phe His
    65   70   75   80

Val Arg Pro Arg Thr Val Pro Trp Ser Val Asp Ser Trp Ser Ala Leu
                85   90   95

Thr Gly

<210> 1461
<211> 33
<212> PRT
<213> Homo sapiens

<400> 1461
Met Leu Val Leu Val Ser Gly Ile Ile Phe Ser Leu Ala Asp Arg Ser
  1   5   10   15

Ser Ser Ser Thr Ile Arg Met Asp Ala Leu Ala Phe Leu Gln Gly Leu
            20   25   30

Leu

<210> 1462
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1462
Met Leu Val Leu Val Ser Gly Ile Ile Phe Ser Leu Ala Asp Arg Ser
  1   5   10   15

Ser Ser Ser Thr Ile Arg Met Asp Ala Leu Ala Phe Leu Gln Gly Leu
            20   25   30

Leu Gly Thr Glu Pro Ala Glu Ala Phe His Pro His Leu Pro Ile Leu
            35   40   45

Leu Pro Pro Val Met Ala Cys Val Ala Asp Pro Phe Tyr Lys Ile Ala
    50   55   60

Ala Arg Gly Pro Gly Gly Ala Ala Gly Ala Gly Ala Gly Pro Val Ala
65   70   75   80

Ala Ala Gln Ala Ser Asp Ala Gly Ser
                85

<210> 1463
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1463
Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val
1   5   10   15

Tyr Gly Phe Met Met Leu Val Leu Val Ile Leu Cys Ile Val Thr Val
                20   25   30

Cys Val Thr Ile Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr
                35   40   45

Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr
    50   55   60

Val Tyr Met Tyr Ser Phe Tyr Tyr Tyr Phe Phe Lys Thr Lys Met Tyr
65   70   75   80

Gly Leu Phe Gln Thr Ser Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser
                85   90   95

Thr Ala Leu Gly Ile Met Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser
                100   105   110

Ala Phe Val Arg Lys Ile Tyr Thr Asn Val Lys Ile Asp
                115   120   125

<210> 1464
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1464
Met Tyr Phe Ile Phe Thr Ser Phe Trp Ala Tyr Lys Ile Tyr Tyr Val
1   5   10   15

1018

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Tyr Gly Phe Met Met Leu Val Leu Val Ile Leu Cys Ile Val Thr Val
            20                  25                  30

Cys Val Thr Ile Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr
            35                  40                  45

Arg Trp Gln Trp Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr
        50                  55                  60

Val Tyr Met Tyr Ser Phe Tyr Tyr Phe Phe Lys Thr Lys Met Tyr
65                  70                  75                  80

Gly Leu Phe Gln Thr Ser Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser
                85                  90                  95

Thr Ala Leu Gly Ile Met Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser
                100                 105                 110

Ala Phe Val Arg Lys Ile Tyr Thr Asn Val Lys Ile Asp
            115                 120                 125


<210> 1465
<211> 250
<212> PRT
<213> Homo sapiens

<400> 1465
Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
 1                   5                   10                  15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
            20                  25                  30

Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
            35                  40                  45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
        50                  55                  60

Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
65                  70                  75                  80

Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
                85                  90                  95

Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
                100                 105                 110

Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
            115                 120                 125
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Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
    130   135   140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
145   150   155   160

Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
                165   170   175

Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
            180   185   190

Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
        195   200   205

Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
    210   215   220

Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
225   230   235   240

Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
            245   250

<210> 1466
<211> 250
<212> PRT
<213> Homo sapiens

<400> 1466
Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
1   5   10   15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
            20   25   30

Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
        35   40   45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
    50   55   60

Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
65   70   75   80

Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
            85   90   95

Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr

1020

100   105   110

Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
        115   120   125

Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
    130   135   140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
145   150   155   160

Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
                165   170   175

Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
            180   185   190

Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
        195   200   205

Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
    210   215   220

Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
225   230   235   240

Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
                245   250

<210> 1467
<211> 388
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1467
Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr
 1   5   10   15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile
            20   25   30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe
        35   40   45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu

1021

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys
 65   70   75   80

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu
              85   90   95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
              100   105   110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro
          115   120   125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg
          130   135   140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu
145   150   155   160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys
              165   170   175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro
          180   185   190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp
          195   200   205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala
          210   215   220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro
225   230   235   240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu
              245   250   255

Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile
          260   265   270

Phe Gln Leu Ala Xaa Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr
          275   280   285

Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe
          290   295   300

Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser
305   310   315   320

Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln
              325   330   335

1022

Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu
          340   345   350

Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His
          355   360   365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu
          370   375   380

Pro Ala Pro Cys
385

<210> 1468
<211> 388
<212> PRT
<213> Homo sapiens

<400> 1468
Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr
  1   5   10   15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile
              20   25   30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe
          35   40   45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu
      50   55   60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys
 65   70   75   80

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu
                  85   90   95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
              100   105   110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro
          115   120   125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg
          130   135   140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu
145   150   155   160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys

1023

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                   165                          170                          175
Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro
            180                      185                  190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp
          195                  200                  205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala
        210                  215                  220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro
225                      230                  235                      240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu
                245                  250                  255

Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile
            260                  265                  270

Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr
            275                  280                  285

Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe
            290                  295                  300

Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser
305                      310                  315                      320

Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln
                325                  330                  335

Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu
            340                  345                  350

Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His
          355                  360                  365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu
    370                  375                  380

Pro Ala Pro Cys
385


<210> 1469
<211> 262
<212> PRT
<213> Homo sapiens

<220>
```

<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1469
Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Pro Leu
 1   5   10   15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His
              20   25   30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg
          35   40   45

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
      50   55   60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly
65   70   75   80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp
              85   90   95

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe
              100   105   110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser
          115   120   125

Ser Phe Gln Ala Asn Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly
      130   135   140

Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile
145   150   155   160

Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu
              165   170   175

Val Phe Ala Phe Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro
              180   185   190

Ile Leu Ser Val Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu
          195   200   205

Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp
      210   215   220

Pro Glu Glu Pro Asp Gly Xaa Glu Leu Val Leu Gly Gly Ser Asp Pro
225   230   235   240

Ala His Tyr Ile Pro Pro Ser Pro Phe Val Pro Val Arg Ser Pro Pro
              245   250   255

1025

```
Met Ala Asp Pro Gln Gly
              260



<210> 1470
<211> 145
<212> PRT
<213> Homo sapiens

<400> 1470
Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Pro Leu
 1               5                  10                  15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His
              20                  25                  30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg
           35                  40                  45

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
        50                  55                  60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly
 65                  70                  75                  80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp
                 85                  90                  95

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe
             100                 105                 110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser
             115                 120                 125

Ser Phe Arg Pro Met Gly Pro Ser Leu Pro Phe Asn Met Glu Leu Gly
        130                 135                 140

Gly
145



<210> 1471
<211> 212
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
```

1026

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1471

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Gly Ser Ala Gly Thr Ala Arg Ile Xaa Gly Ser Thr Thr Arg Pro Asp
 1               5               10              15

Pro Glu Glu Pro Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro
            20              25              30

Ala His Tyr Ile Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala
        35              40              45

Tyr Trp Gln Ile His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr
    50              55              60

Leu Cys Ala Lys Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu
 65              70              75                  80

Ile Thr Gly Pro Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly
            85              90                  95

Gly Ile Pro Leu Leu Ala Gly Glu Tyr Ile Ile Leu Cys Ser Glu Ile
        100             105             110

Pro Lys Leu Pro Ala Val Ser Phe Leu Leu Gly Gly Val Trp Phe Asn
        115             120             125

Leu Thr Ala His Asp Tyr Val Ile Gln Thr Thr Arg Asn Gly Val Arg
    130             135             140

Leu Cys Leu Ser Gly Phe Gln Ala Leu Asp Val Pro Pro Pro Ala Gly
145             150             155             160

Pro Phe Trp Ile Leu Gly Asp Val Phe Leu Gly Thr Tyr Val Ala Val
        165             170             175

Phe Asp Arg Gly Asp Met Lys Ser Ser Ala Arg Val Gly Leu Ala Arg
        180             185             190

Ala Arg Thr Arg Gly Ala Asp Leu Gly Trp Gly Glu Thr Ala Gln Ala
        195             200             205

Gln Phe Pro Gly
    210
```

<210> 1472
<211> 150
<212> PRT
<213> Homo sapiens

1027

```
<400> 1472
Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1               5                   10                  15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
            20                  25                  30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
        35                  40                  45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
        50                  55                  60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
65                  70                  75                      80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
                85                  90                  95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
            100                 105                 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
            115                 120                 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
        130                 135                 140

Ile Ser Ile Met Ile Cys
145                 150


<210> 1473
<211> 150
<212> PRT
<213> Homo sapiens

<400> 1473
Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1               5                   10                  15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
            20                  25                  30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
        35                  40                  45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
        50                  55                  60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
```

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
                    85   90   95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
                    100   105   110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
            115   120   125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
        130   135   140

Ile Ser Ile Met Ile Cys
145   150

<210> 1474
<211> 353
<212> PRT
<213> Homo sapiens

<400> 1474
Met Arg Tyr Leu Leu Pro Ser Val Val Leu Leu Gly Thr Ala Pro Thr
 1   5   10   15

Tyr Val Leu Ala Trp Gly Val Trp Arg Leu Leu Ser Ala Phe Leu Pro
                20   25   30

Ala Arg Phe Tyr Gln Ala Leu Asp Asp Arg Leu Tyr Cys Val Tyr Gln
            35   40   45

Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu
        50   55   60

Leu Tyr Gly Asp Leu Pro Lys Asn Lys Glu Asn Ile Ile Tyr Leu Ala
 65   70   75   80

Asn His Gln Ser Thr Val Asp Trp Ile Val Ala Asp Ile Leu Ala Ile
                85   90   95

Arg Gln Asn Ala Leu Gly His Val Arg Tyr Val Leu Lys Glu Gly Leu
            100   105   110

Lys Trp Leu Pro Leu Tyr Gly Cys Tyr Phe Ala Gln His Gly Gly Ile
            115   120   125

Tyr Val Lys Arg Ser Ala Lys Phe Asn Glu Lys Glu Met Arg Asn Lys
        130   135   140

Leu Gln Ser Tyr Val Asp Ala Gly Thr Pro Met Tyr Leu Val Ile Phe
145   150   155   160

Pro Glu Gly Thr Arg Tyr Asn Pro Glu Gln Thr Lys Val Leu Ser Ala
                165   170   175

Ser Gln Ala Phe Ala Ala Gln Arg Gly Leu Ala Val Leu Lys His Val
            180   185   190

Leu Thr Pro Arg Ile Lys Ala Thr His Val Ala Phe Asp Cys Met Lys
            195   200   205

Asn Tyr Leu Asp Ala Ile Tyr Asp Val Thr Val Val Tyr Glu Gly Lys
        210   215   220

Asp Asp Gly Gly Gln Arg Arg Glu Ser Pro Thr Met Thr Glu Phe Leu
225   230   235   240

Cys Lys Glu Cys Pro Lys Ile His Ile His Ile Asp Arg Ile Asp Lys
                245   250   255

Lys Asp Val Pro Glu Glu Gln Glu His Met Arg Arg Trp Leu His Glu
            260   265   270

Arg Phe Glu Ile Lys Asp Lys Met Leu Ile Glu Phe Tyr Glu Ser Pro
        275   280   285

Asp Pro Glu Arg Arg Lys Arg Phe Pro Gly Lys Ser Val Asn Ser Lys
        290   295   300

Leu Ser Ile Lys Lys Thr Leu Pro Ser Met Leu Ile Leu Ser Gly Leu
305   310   315   320

Thr Ala Gly Met Leu Met Thr Asp Ala Gly Arg Lys Leu Tyr Val Asn
            325   330   335

Thr Trp Ile Tyr Gly Thr Leu Leu Gly Cys Leu Trp Val Thr Ile Lys
            340   345   350

Ala

<210> 1475
<211> 353
<212> PRT
<213> Homo sapiens

<400> 1475
Met Arg Tyr Leu Leu Pro Ser Val Val Leu Leu Gly Thr Ala Pro Thr
  1   5   10   15

1030

Tyr Val Leu Ala Trp Gly Val Trp Arg Leu Leu Ser Ala Phe Leu Pro
            20   25   30

Ala Arg Phe Tyr Gln Ala Leu Asp Asp Arg Leu Tyr Cys Val Tyr Gln
                35   40   45

Ser Met Val Leu Phe Phe Phe Glu Asn Tyr Thr Gly Val Gln Ile Leu
        50   55   60

Leu Tyr Gly Asp Leu Pro Lys Asn Lys Glu Asn Ile Ile Tyr Leu Ala
 65   70   75   80

Asn His Gln Ser Thr Val Asp Trp Ile Val Ala Asp Ile Leu Ala Ile
                85   90   95

Arg Gln Asn Ala Leu Gly His Val Arg Tyr Val Leu Lys Glu Gly Leu
                100   105   110

Lys Trp Leu Pro Leu Tyr Gly Cys Tyr Phe Ala Gln His Gly Gly Ile
        115   120   125

Tyr Val Lys Arg Ser Ala Lys Phe Asn Glu Lys Glu Met Arg Asn Lys
    130   135   140

Leu Gln Ser Tyr Val Asp Ala Gly Thr Pro Met Tyr Leu Val Ile Phe
145   150   155   160

Pro Glu Gly Thr Arg Tyr Asn Pro Glu Gln Thr Lys Val Leu Ser Ala
                165   170   175

Ser Gln Ala Phe Ala Ala Gln Arg Gly Leu Ala Val Leu Lys His Val
                180   185   190

Leu Thr Pro Arg Ile Lys Ala Thr His Val Ala Phe Asp Cys Met Lys
        195   200   205

Asn Tyr Leu Asp Ala Ile Tyr Asp Val Thr Val Val Tyr Glu Gly Lys
    210   215   220

Asp Asp Gly Gly Gln Arg Arg Glu Ser Pro Thr Met Thr Glu Phe Leu
225   230   235   240

Cys Lys Glu Cys Pro Lys Ile His Ile His Ile Asp Arg Ile Asp Lys
                245   250   255

Lys Asp Val Pro Glu Glu Gln Glu His Met Arg Arg Trp Leu His Glu
                260   265   270

Arg Phe Glu Ile Lys Asp Lys Met Leu Ile Glu Phe Tyr Glu Ser Pro
        275   280   285

1031

Asp Pro Glu Arg Arg Lys Arg Phe Pro Gly Lys Ser Val Asn Ser Lys
     290   295   300

Leu Ser Ile Lys Lys Thr Leu Pro Ser Met Leu Ile Leu Ser Gly Leu
305   310   315   320

Thr Ala Gly Met Leu Met Thr Asp Ala Gly Arg Lys Leu Tyr Val Asn
             325   330   335

Thr Trp Ile Tyr Gly Thr Leu Leu Gly Cys Leu Trp Val Thr Ile Lys
             340   345   350

Ala

<210> 1476
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1476
Met Thr His Cys Leu Leu His Gly Met Gly Xaa Ala Gly Ala Ala Ser
  1   5   10   15

Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu
             20   25   30

Trp Leu Ala Ala Val Ala Val Met Val Gln Met Ala Ala Leu Cys Gly
         35   40   45

Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln
     50   55   60

Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys
 65   70   75   80

<210> 1477
<211> 415
<212> PRT
<213> Homo sapiens

<400> 1477

```
Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly
 1               5                  10                 15

Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro
             20                  25                 30

Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys
         35                  40                  45

Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp
     50                  55                  60

Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg
65                  70                  75                  80

Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser
             85                  90                  95

His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala
             100                 105                 110

Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys
         115                 120                 125

Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val
     130                 135                 140

Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn
145                 150                 155                 160

Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr
             165                 170                 175

Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe
             180                 185                 190

Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser
         195                 200                 205

Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg
     210                 215                 220

Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn
225                 230                 235                 240

Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Pro Trp Leu Arg
             245                 250                 255

Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn
             260                 265                 270
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1033

```
Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp
        275                 280                 285

Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu
        290                 295                 300

Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly
305                 310                 315                 320

Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser
                325                 330                 335

Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln
            340                 345                 350

Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser
        355                 360                 365

Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly
        370                 375                 380

Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val
385                 390                 395                 400

Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly
                405                 410                 415
```

```
Met Ser Leu Gly Gly Ser Gln Ser Ser Leu Val Ser Trp Arg Ala Thr
 1               5                   10                  15

Gln Ile Ala Cys Met Thr Leu Ser Trp Pro Leu Trp Thr Cys Trp Leu
            20                  25                  30

Ala Ala Pro Leu Ser Leu Thr Lys Ser Pro Trp Arg Gln Trp Ser Thr
        35                  40                  45

His Val Lys Gly Phe Asn Leu Ala Ser Ser Gln Ala Glu Val Gln Pro
    50                  55                  60
```

Val Gly Gln Thr Leu Ala Ser Glu Lys Lys Xaa Leu Gln Glu Val Leu
 65   70   75   80

Ala Arg Ala Ile Gln His
                    85

<210> 1479
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1479
Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys
 1   5   10   15

Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala
            20   25   30

Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp
            35   40   45

Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
     50   55   60

Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr
 65   70   75   80

Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Val Asp
                85   90   95

Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp
            100   105   110

Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly
            115   120   125

Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr
     130   135   140

1035

Asn His Ile Lys Ile Thr Phe Lys Xaa Asp Asp Tyr Phe Xaa Ala
145   150   155

<210> 1480
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1480
Leu Ile Ile Lys Lys Gly Lys Ile Trp Phe Pro Glu Lys Arg Pro Ile
  1   5   10   15

Pro Lys His Phe Phe His Glu Lys His Cys Ile Leu Thr Tyr Val Asp
            20   25   30

Xaa Asn Asn Leu Ser Pro Lys Pro Cys His Asn Asn Ile Ser Ala Leu
        35   40   45

Glu Ile Lys Ser Leu Cys Phe Leu Cys Ile Leu Leu Arg His Xaa Tyr
    50   55   60

Ser Phe Asn Thr Tyr Leu Lys Asn Leu Leu Arg Arg Phe Phe Ile Ile
65   70   75   80

Val Leu Gln Lys Thr Met Tyr Lys Leu
                85

<210> 1481
<211> 370
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1481

1036

Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys
1   5   10   15

Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala
                20   25   30

Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp
        35   40   45

Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
    50   55   60

Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr
65   70   75   80

Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp
            85   90   95

Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp
            100   105   110

Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly
        115   120   125

Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr
    130   135   140

Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys
145   150   155   160

Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala
            165   170   175

Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly
            180   185   190

Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp
        195   200   205

Ala Leu Asp Lys Lys Ile Ala Xaa Phe Asp Thr Val Glu Asp Leu Leu
    210   215   220

Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr
225   230   235   240

Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser
            245   250   255

Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys
        260   265   270

Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala

1037

275   280   285

Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly
    290   295   300

Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser
305   310   315   320

Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly
                325   330   335

His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile
                340   .   345   350

Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro
            355   360   365

Pro Arg
    370

                .   .

<210> 1482
<211> 370
<212> PRT
<213> Homo sapiens

<400> 1482
Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn Phe Cys
    1   5   10   15

Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile Lys Ala
                20   25   30

Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu Thr Asp
            35   40   45

Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
    50   55   60

Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr
65   70   75   80

Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp
                85   90   95

Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp
                100   105   110

Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly
            115   120   125

                                1038

Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr
    130   135   140

Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys
145   150   155   160

Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala
              165   170   175

Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly
              180   185   190

Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp
              195   200   205

Ala Leu Asp Lys Lys Ile Ala Glu Phe Asp Thr Val Glu Asp Leu Leu
    210   215   220

Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr
225   230   235   240

Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser
              245   250   255

Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys
              260   265   270

Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala
              275   280   285

Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly
    290   295   300

Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser
305   310   315   320

Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly
              325   330   335

His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile
              340   345   350

Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro
              355   360   365

Pro Arg
    370

<210> 1483
<211> 229

1039

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1483
Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala
 1   5   10   15

Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly
            20   25   30

Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu
            35   40   45

Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe
    50   55   60

Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu
65   70   75   80

Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala
                85   90   95

Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu
            100   105   110

Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe
            115   120   125

Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser
    130   135   140

Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr
145   150   155   160

Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu
            165   170   175

Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn
            180   185   190

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu
        195   200   205

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser
    210   215   220

Thr Lys Pro Ala Leu

225

<210> 1484
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1484
Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu Leu Leu Ile Ser Arg
 1   5   10   15

Ser Gln Thr Phe Gly Tyr Asn Gly Arg Ala Cys Gln Glu Trp Leu Pro
                20   25   30

Xaa Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn
         35   40   45

Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu
     50   55   60

Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser
 65   70   75   80

Thr Lys Pro Ala Leu
                85

<210> 1485
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1485
Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala

```
     1                    5                         10                        15

   Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly
                   20                    25                    30

   Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu
                   35                    40                    45

   Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe
           50                    55                    60

   Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu
   65                    70                    75                    80

   Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala
                   85                    90                    95

   Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu
                  100                   105                   110

   Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe
                  115                   120                   125

   Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser
           130                   135                   140

   Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr
   145                   150                   155                   160

   Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu
                  165                   170                   175

   Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn
                  180                   185                   190

   Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu
                  195                   200                   205

   Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser
           210                   215                   220

   Thr Lys Pro Ala Leu
   225
```

<210> 1486
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1486

```
Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala
 1               5                  10                  15

Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys
              20                  25                  30

Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn
          35                  40                  45

Phe Asn Leu Leu Phe Ser Gly Pro Ile Ser Lys Tyr Ser Leu Ile Leu
      50                  55                  60

Arg Tyr Trp Tyr Leu Gly Leu Gln His Thr Asn Phe Gly Val Asp Thr
 65              70                  75                  80

Ile Gln Pro Ile Thr Asn Cys Ala His Glu Met Ile Tyr
                  85                  90
```

<210> 1487
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1487
Ala Leu Pro Phe Thr Leu Asn Lys Thr Ser Asn Tyr Pro Gln Asp Leu
```

```
      1                    5                        10                            15

    Val Leu Xaa Ser Leu Leu Leu Gly Xaa Asn Tyr Xaa Gln Leu Gln Ile
                20                  25                  30

    Leu Leu Glu Cys Ile Phe Pro Val Pro His Ser Leu Leu Tyr Val Val
                35                  40                  45

    Leu Pro Asn Ser Ile Asp Leu Xaa Gln Lys Leu Pro Arg Asp Leu Pro
          50                  55                  60

    His Leu Pro Cys Pro Xaa Phe Leu Trp Pro Arg Pro Gly Ser Pro Pro
    65                  70                  75                      80

    Lys Cys Phe Leu Ser Leu Ser Leu Thr Ala Leu Pro Leu Ser Ser Cys
                      85                  90                  95

    Arg Tyr Thr Leu Pro Pro Ser Pro His Pro Leu Met Pro Ser Pro Leu
                100                 105                 110

    Leu Pro Ser Trp Val Gln Pro Ser Cys Tyr Leu Ala
                115                 120
```

<210> 1488
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1488

```
    Met Ala Thr Phe Ser Leu Cys Tyr Leu Met Ala Phe Pro Leu Cys Ala
     1                    5                        10                      15

    Gly Ile Ala Gly Ile Ser Val Cys Val Lys Ile Ser Cys Phe Tyr Lys
                      20                  25                  30

    Asp Ile Ser Gln Thr Gly Leu Arg Pro Thr Leu Lys Ala Tyr Leu Asn
                35                  40                  45

    Phe Asn Leu Leu Phe Ser Gly Pro Ile Gln Ile
          50                  55
```

<210> 1489
<211> 314
<212> PRT
<213> Homo sapiens

<400> 1489
```
    Gly Ser Gly Arg Gln Ala Gly Trp Pro Arg Gly Leu Leu Ser Gly Pro
```

Ala Pro Ser Glu Arg Ser Ala Val Ala Arg Leu Ala Pro Thr Glu Ser
            20   25   30

Leu Ala Arg Met Glu Ala Val Val Asn Leu Tyr Gln Glu Val Met Lys
            35   40   45

His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser Pro Leu
    50   55   60

Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu Ser Leu
65   70   75   80

Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg Gly Phe
            85   90   95

Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr Ile Val
            100   105   110

Tyr Glu Phe Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp Arg Cys
    115   120   125

Asp Pro Val Asp Tyr Ser Asn Ser Pro Glu Ala Leu Arg Met Val Arg
    130   135   140

Val Ala Trp Leu Phe Leu Phe Ser Lys Phe Ile Glu Leu Met Asp Thr
145   150   155   160

Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val Thr Phe Leu His
            165   170   175

Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp Gly Val Lys
            180   185   190

Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met Ile Asn Ser Ser
            195   200   205

Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser Ala Phe Gly Pro
    210   215   220

Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met Thr Ala Ile Gln
225   230   235   240

Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser Gln Tyr Tyr Phe
            245   250   255

Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile His Leu Ile Trp
            260   265   270

Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn Phe Trp Tyr His
            275   280   285

1045

Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu Gln Gln Asn Gly
    290   295   300

Ala Pro Gly Ile Ala Lys Val Lys Ala Asn
305   310

<210> 1490
<211> 258
<212> PRT
<213> Homo sapiens

<400> 1490
Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser
  1   5   10   15

Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu
              20   25   30

Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg
          35   40   45

Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr
      50   55   60

Ile Val Tyr Glu Phe Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp
 65   70   75   80

Arg Cys Asp Pro Gln Asp Cys Thr Leu Gly Gln Cys Pro Ser Val Pro
              85   90   95

Ser Pro Pro Thr Pro Val Thr Lys Ala Tyr Val Val Arg Thr Glu Gln
          100   105   110

Gly Thr Gly Pro Pro Leu Pro Thr Ala Ala Leu Gln Gly Pro Arg Leu
          115   120   125

Trp Phe Leu Thr His Phe Pro Arg Ala Ala Pro Gly Met Trp Pro His
      130   135   140

Cys Cys Leu Pro Leu Gln Ser Trp Gly Leu Lys Gly Leu Tyr Ser Tyr
145   150   155   160

Phe Pro Leu Pro Ala Leu Lys Leu Gly Arg Gly Ala Leu Arg Ala Gly
              165   170   175

Pro Thr Lys Gly Leu Val Ala Phe Phe Leu Thr Gln Lys Arg Ser Ala
          180   185   190

Ile Met Ser Leu Trp Thr Gln Ser His Ser Ser Thr Pro His Thr Glu

1046

Ala Val Ala Ser Gly Pro Lys Val Arg Val Gly Gly Gly Leu Gly Ile
    210   215   220

Gln Pro Val Glu Ala Ala Tyr Ser Thr Cys Val Leu Ile Lys Ser Asp
225   230   235   240

Arg Gly Asn Gln Lys Lys Lys Lys Lys Lys Leu Glu Asn Tyr Phe
                   245   250   255

Leu Lys

<210> 1491
<211> 222
<212> PRT
<213> Homo sapiens

<400> 1491
Met Lys His Ala Asp Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser
  1   5   10   15

Pro Leu Leu Met Thr Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu
                20   25   30

Ser Leu Gly Pro Arg Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg
            35   40   45

Gly Phe Met Ile Val Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr
        50   55   60

Ile Val Tyr Glu Val Ile Phe Ile Leu Arg Lys Lys Asp Gly Gln Val
65   70   75   80

Thr Phe Leu His Val Phe His His Ser Val Leu Pro Trp Ser Trp Trp
                85   90   95

Trp Gly Val Lys Ile Ala Pro Gly Gly Met Gly Ser Phe His Ala Met
            100   105   110

Ile Asn Ser Ser Val His Val Ile Met Tyr Leu Tyr Tyr Gly Leu Ser
            115   120   125

Ala Phe Gly Pro Val Ala Gln Pro Tyr Leu Trp Trp Lys Lys His Met
        130   135   140

Thr Ala Ile Gln Leu Ile Gln Phe Val Leu Val Ser Leu His Ile Ser
145   150   155   160

1047

```
Gln Tyr Tyr Phe Met Ser Ser Cys Asn Tyr Gln Tyr Pro Val Ile Ile
                165                 170            .          175

His Leu Ile Trp Met Tyr Gly Thr Ile Phe Phe Met Leu Phe Ser Asn
                180                 185              190

Phe Trp Tyr His Ser Tyr Thr Lys Gly Lys Arg Leu Pro Arg Ala Leu
            195                 200              205

Gln Gln Asn Gly Ala Pro Gly Ile Ala Lys Val Lys Ala Asn          .
    210                 215                 220


<210> 1492
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1492
Met Tyr Gly Leu Ser Ile Cys Tyr Leu Lys Cys Leu Gly Pro Glu Val
  1               5                 10                  15

Phe Trp Thr Phe Phe Leu Phe Trp Asn Thr Ser Ile Cys Ile Leu Pro
                20                  25              30

Val Glu His Pro Lys Ser Glu Ile Ser Lys Ile Gln Asn Val Pro Val
            35                  40                  45

Ser Leu Asn Ser Ser Val Asp Gly His Leu Ser Tyr Phe Arg Phe Glu
    50                  55                  60

Ala Ile Met Arg Glu Ala Ala Val His Val Phe Val Tyr Val Lys Cys
 65                 70                  75                  80

Val Phe Thr Cys Gln Ile Leu Lys Asp Leu Thr Asp Phe
                85                  90


<210> 1493
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1493
Lys Leu Ser Asn Cys Asn Cys Phe Gln Leu Leu Ser Glu Val Gly Ile
  1               5                 10                  15

Met Val Asp Leu Ile Ser Ser Val Leu Phe Leu Gln Leu Tyr Tyr Gln
                20                  25                  30
```

1048

```
Val Leu Asn Phe Gly Met Ile Val Ser Ser Ala Leu Met Ile Trp Lys
        35                  40                  45

Gly Leu Met Val Ile Thr Gly Ser Glu Ser Pro Ile Val Val Val Leu
        50                  55                  60

Arg
 65




<210> 1494
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1494
Met Tyr Gly Leu Ser Ile Cys Tyr Leu Lys Cys Leu Gly Pro Glu Val
 1               5                  10                  15

Phe Trp Thr Phe Phe Leu Phe Trp Asn Thr Ser Ile Cys Ile Leu Pro
            20                  25                  30

Val Glu His Pro Lys Ser Glu Ile Ser Lys Ile Gln Asn Val Pro Val
        35                  40                  45

Ser Leu Asn Ser Ser Val Asp Gly His Leu Ser Tyr Phe Arg Phe Glu
        50                  55                  60

Ala Ile Met Arg Glu Ala Ala Val His Val Phe Val Tyr Val Lys Cys
 65                  70                  75                  80

Val Phe Thr Cys Gln Ile Leu Lys Asp Leu Thr Asp Phe
                85                  90




<210> 1495
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1495
Met Gly Lys Pro Ser Leu Leu Phe Phe Gly Leu Met Ala Ser Trp Arg
 1               5                  10                  15

Thr Arg Ser Gln Ala Arg Arg Thr Trp Ser Thr Ser Ser Arg Met Pro
            20                  25                  30

Gly Arg Asn Val Leu Leu Arg Ser Arg Lys Arg Arg Ser Gln Ile Ser
        35                  40                  45
```

Ser Ser Ile Ser Trp Ser Ile Ala Leu Gly Pro Val Met Pro Trp Pro
    50   55   60

Gly Leu Ile Leu Phe Leu Lys Ile Ser Arg Ser Ser Thr Pro Thr Arg
 65   70   75   80

Leu

<210> 1496
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1496
Met Gly Lys Pro Ser Leu Leu Phe Phe Gly Leu Met Ala Ser Trp Arg
 1   5   10   15

Thr Arg Ser Gln Ala Arg Arg Thr Trp Ser Thr Ser Ser Arg Met Pro
                20   25   30

Gly Arg Asn Val Leu Leu Arg Ser Arg Lys Arg Arg Ser Gln Ile Ser
            35   40   45

Ser Ser Ile Ser Trp Ser Ile Ala Leu Gly Pro Val Met Pro Trp Pro
    50   55   60

Gly Leu Ile Leu Phe Leu Lys Ile Ser Arg Ser Ser Thr Pro Thr Arg
 65   70   75   80

Leu

<210> 1497
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1497
Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile
 1   5   10   15

Ser His Gln Pro Thr Pro Val Ile Asn Ser Leu Ala Val Tyr Arg His

Arg Glu Thr Asp Phe Gly Val Arg Val Arg Asp His Pro Trp Xaa
         35   40   45

<210> 1498
<211> 394
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1498
Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe
 1   5   10   15

Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr

```
            20                    25                    30

Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu
        35                40                45

Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val
    50                55                60

Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys
65                70                75                        80

Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys
            85                90                    95

Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg
            100               105               110

His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg
        115               120               125

Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val
    130               135               140

Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr
145               150               155               160

Tyr Met Glu Met Phe Gln Arg Ala Gln Ala Leu Arg Arg Arg Ala Glu
            165               170               175

Asp Tyr Tyr Arg Cys Lys Ile Thr Pro Ser Ala Arg Lys Pro Leu Cys
            180               185               190

Asn Xaa Val Arg Met Ala Ala Xaa Glu His Arg His Ser Ser Gly Leu
    195               200               205

Pro Xaa Trp Pro Tyr Leu Thr Ala Glu Thr Leu Lys Asn Arg Met Gly
    210               215               220

Xaa Gln Pro Pro Pro Pro Thr Gln Gln His Ser Ile Xaa Asp Asn Ser
225               230               235               240

Leu Ser Leu Lys Thr Pro Pro Glu Cys Leu Leu His Pro Leu Pro Pro
            245               250               255

Ser Val Asp Asp Asn Ile Lys Glu Cys Pro Leu Ala Pro Leu Pro Pro
        260               265               270

Ser Val Asp Asp Asn Leu Lys Glu Cys Leu Leu Val Pro Leu Pro Pro
        275               280               285

Ser Pro Leu Pro Pro Ser Val Asp Asp Asn Leu Lys Asp Cys Leu Phe
    290               295               300

                            1052
```

```
Val Pro Leu Pro Pro Ser Pro Leu Pro Pro Ser Val Asp Asp Asn Leu
305             310             315             320

Lys Thr Pro Pro Leu Ala Thr Gln Glu Ala Glu Ala Glu Lys Pro Pro
        325             330             335

Lys Pro Lys Arg Trp Arg Val Asp Glu Val Glu Gln Ser Pro Lys Pro
            340             345             350

Lys Arg Arg Arg Ala Asp Glu Val Glu Gln Ser Pro Lys Pro Lys Arg
        355             360             365

Gln Arg Glu Ala Glu Ala Gln Gln Leu Pro Lys Pro Lys Arg Arg Arg
        370             375             380

Leu Ser Lys Leu Xaa Thr Arg His Cys Thr
385             390
```

<210> 1499
<211> 212
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1499

```
Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile
  1               5                   10                  15

Ser His Gln Pro Thr Pro Val Ile Asn Ser Leu Ala Val Tyr Arg His
            20              25                  30

Arg Glu Thr Asp Phe Gly Val Gly Val Arg Asp His Pro Gly Gln His
        35              40              45

Gly Lys Thr Pro Ser Xaa Gln Lys Leu Asp Asn Leu Ile Ile Ile Ile
    50              55                  60

Ile Gly Phe Leu Arg Arg Tyr Thr Phe Xaa Ile Leu Phe Cys Thr Ser
65              70              75                      80

Xaa Leu Cys Val Ser Phe Leu Lys Thr Ile Phe Trp Ser Arg Asn Gly
            85                  90                  95

His Asp Gly Ser Xaa Asp Val Gln Gln Arg Ala Trp Arg Ser Asn Arg
            100             105             110

Ser Arg Gln Lys Gly Leu Arg Ser Ile Xaa Met His Thr Lys Lys Arg
        115             120             125

Val Ser Ser Phe Arg Gly Asn Lys Ile Gly Leu Lys Asp Val Ile Thr
    130             135             140

Leu Arg Arg His Val Glu Thr Lys Val Arg Ala Lys Ile Arg Lys Arg
145             150             155                 160

Lys Val Thr Thr Lys Ile Asn Arg His Asn Lys Ile Asn Gly Lys Arg
            165             170             175

Lys Thr Ala Arg Lys Gln Lys Met Phe Gln Arg Ala Gln Glu Leu Arg
        180             185             190

Arg Arg Ala Glu Asp Tyr His Lys Cys Lys Val Arg Ser Phe Leu Pro
        195             200             205

Ala Val Ala Gly
    210
```

<210> 1500
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)

1054

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1500
Met Ala Thr Leu Val Trp Arg Leu Tyr Leu Leu Gln Pro Glu Leu Val
 1   5   10   15

Leu Pro Ser Pro Pro Pro Pro Arg Phe Pro Gly Pro Val Gln Thr
            20   25   30

Pro Lys Ile Pro Gly Pro Ala Arg Gly Pro Arg Thr Gly Phe Gln Pro
            35   40   45

Pro Ala Phe Ser Phe Pro Ser Pro Thr Pro Phe Phe Ser Ala Gly Thr
            50   55   60

Pro Val Leu Ser Trp Lys Phe Ala Val Leu Cys Pro Ile Ala Gln Glu
 65   70   75   80

Leu Leu Pro Ala Glu Lys Gly Ala Arg Asn Lys Cys Ser Gly Leu Ser
                85   90   95

Arg Ser Tyr Ile Phe Ala Met Leu Pro Glu Met Gly Gly Xaa Asn Xaa
                100   105   110

Leu Xaa Gln Xaa Asn Glu Trp His Gly
        115   120

<210> 1501
<211> 128
<212> PRT
<213> Homo sapiens

<400> 1501
Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val
 1   5   10   15

1055

```
Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr
        20                      25                  30

Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val
        35                      40                  45

Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala
    50                      55                  60

Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp
65                      70                  75                  80

Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu
                85                  90                  95

Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile
            100                 105                 110

Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Val Cys Gly Phe
        115                 120                 125
```

<210> 1502
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1502
Leu Glu Phe Lys Xaa Pro Xaa Xaa Gln Val Pro Pro Trp Xaa Trp Leu
  1   5   10   15

Ser Leu Phe Lys Lys Tyr Arg Ser Ala Thr Ile Ala Asn Ala Arg Thr
              20   25   30

Trp Val Phe Cys Ser Phe Phe Xaa Val Leu Ile Leu Leu Phe Leu Tyr
          35   40   45

Asn Gly Val Ile Val Ile Asn Thr Asn Cys Ser Phe Trp Phe Ser Pro
      50   55   60

His Cys His Phe Cys Pro Tyr Val Ser Leu Glu His Val Pro Gln Arg
 65   70   75   80

Leu Trp Tyr Gln Ser Pro Val Pro Gly Leu Ile Ser Thr Ser His Ile
              85   90   95

Thr Phe Val Met Phe Gln Ser Ser Tyr Glu Ala Cys Tyr Phe Phe Phe
             100   105   110

Ile Pro Gln Ala Tyr Phe His Arg
         115   120

<210> 1503
<211> 409
<212> PRT
<213> Homo sapiens

<400> 1503
Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val
  1   5   10   15

Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr
              20   25   30

Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val
              35   40   45

Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala
      50   55   60

Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp
 65   70   75   80

1057

```
Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu
                85                  90                  95

Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile
            100                 105                 110

Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser
            115                 120                 125

Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe
    130                 135                 140

Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala
145                 150                 155                 160

Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser
                165                 170                 175

Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr
            180                 185                 190

Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile
            195                 200                 205

Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln
    210                 215                 220

Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser
225                 230                 235                 240

Val Pro Leu Pro Pro Leu Ile Met Asn Cys Arg Thr Ile Met Glu Glu
                245                 250                 255

Ile Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg
            260                 265                 270

His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr
            275                 280                 285

Ile Pro Asn Ser Leu Lys Arg Ser Asp Ser Pro Ala Ala Asp Ser Asp
    290                 295                 300

Ala Ser Ser Leu His Glu Gln Pro Gln Gln Ile Ala Ile Lys Val Ser
305                 310                 315                 320

Val His Pro Gln Ser Lys Lys Glu His Ala Asp Asp Gln Glu Gly Gly
                325                 330                 335

Gln Phe Glu Val Lys Asp Val Glu Glu Thr Glu Leu Ser Ala Glu His
            340                 345                 350
```

```
Ser Pro Glu Thr Ala Glu Pro Ser Thr Asp Val Thr Ser Thr Glu Leu
    355                 360                 365

Thr Ser Glu Glu Pro Thr Pro Val Glu Val Pro Asp Lys Val Leu Pro
    370                 375                 380

Pro Ala Tyr Leu Glu Ala Thr Glu Pro Ala Val Thr His Asp Lys Asn
385                 390                 395                 400

Thr Cys Ile Ile Tyr Glu Ser His Val
                405


<210> 1504
<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1504
Ser Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro
  1             5                 10                  15

Thr Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro
             20                 25                  30

Glu Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala
         35                 40                  45

Pro Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Xaa Xaa
     50                 55                  60

Tyr Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln
 65                 70                  75                  80

His Xaa His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val
             85                 90                  95
```

Ser Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
            100   105

<210> 1505
<211> 106
<212> PRT
<213> Homo sapiens

<400> 1505
Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro Thr
  1   5   10   15

Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro Glu
             20   25   30

Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala Pro
         35   40   45

Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Arg Thr Tyr
     50   55   60

Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln His
 65   70   75   80

Pro His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val Ser
             85   90   95

Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
            100   105

<210> 1506
<211> 106
<212> PRT
<213> Homo sapiens

<400> 1506
Met Lys Ala Lys Arg Asn Lys Gly Arg Trp Val Ala Ala Gly Pro Thr
  1   5   10   15

Ala Ala Thr Ala Trp Ile Val Leu Thr Val Gln Ala Ala Cys Pro Glu
             20   25   30

Gly Lys Cys Pro Leu Pro Gly Val Cys Ala Pro Ile Thr Trp Ala Pro
         35   40   45

Ser Tyr Leu Thr Ala Gly Lys Ala Lys Leu Ala Gly Pro Arg Thr Tyr
     50   55   60

Lys Pro Gly Pro Val Leu Lys Ala Ala His Leu Pro Met Gly Gln His
 65   70   75   80

Pro His Thr Thr Pro Trp Trp Gln Pro Leu Phe Ile Ile Ser Val Ser
                    85   90   95

Arg Tyr Pro Pro Arg Thr Pro Lys Gln His
                100   105

<210> 1507
<211> 109
<212> PRT
<213> Homo sapiens

<400> 1507
Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu
 1   5   10   15

Leu Ala Val Leu Ile Phe Cys Leu Val Leu Ala Val Tyr Ile Val Phe
                20   25   30

Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val
            35   40   45

Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu
    50   55   60

Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly
 65   70   75   80

His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu
                85   90   95

Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr
                100   105

<210> 1508
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1508

```
Gly Val Arg Ile Asp Ala Ser Gly Ser Leu Ala Ala Val Leu Pro Leu
1               5               10              15

Asn His Tyr Thr Ile Thr Glu Phe Asn Phe Leu Gln Phe Gln Gly Xaa
            20              25              30

Thr Glu Leu Ser Ser Asp Ser Lys Ile Arg Ile Ser Asn Arg Glu Trp
        35              40              45

Ile His Leu Arg Ile Gly Glu Thr Asp Ile His Asp Leu Lys Gln Lys
    50              55              60

Ser Glu Thr Lys Leu Ile Asn
65              70
```

```
<210> 1509
<211> 109
<212> PRT
<213> Homo sapiens

<400> 1509
Met Val Ser Cys Trp Asp Gln Asn Leu Ile Leu Phe Leu Thr Cys Leu
1               5               10              15

Leu Ala Val Leu Ile Phe Cys Leu Val Leu Ala Val Tyr Ile Val Phe
            20              25              30

Phe Lys Phe Leu Lys Ala Ser Leu Ile Tyr Val Pro Arg Glu Trp Val
        35              40              45

Thr Leu Thr Lys Ala Asn Asp Val Gln Lys Gly His Asp Leu Gly Leu
    50              55              60

Ser Tyr Cys Arg Thr Gln Ser Thr Ala Trp Pro Pro Pro Cys Leu Gly
65              70              75              80

His His Leu His Leu Glu Ser Ser Leu Thr Leu Glu Ser Phe Gly Leu
            85              90              95

Leu Thr Ile Pro Ile Ser Asp Ser Val Ser Leu Ile Thr
            100             105
```

```
<210> 1510
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1510
```

1062

```
Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
 1               5                  10                  15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
                20                  25                  30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser
            35                  40                  45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln
    50                  55                  60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala
65                  70                  75                  80

Val Lys
```

<210> 1511
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1511
```
Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
 1               5                  10                  15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
                20                  25                  30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser
            35                  40                  45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln
    50                  55                  60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala
65                  70                  75                  80

Val Lys
```

<210> 1512
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1512

```
Met Lys Arg Gln Arg Leu Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr
 1               5                  10                  15

Thr Phe Gly Val Leu Leu Asn Leu Gly Leu His Ala Gly Gly Gly Ser
             20                  25                  30

Gly Pro Gly Leu Leu Glu Gly Phe Ser Gly Trp Ala Ala Leu Val Val
         35                  40                  45

Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys His
     50                  55                  60

Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val Val
 65                  70                  75                  80

Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala Ala
                 85                  90                  ·95

Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr
             100                 105                 110

Gly Ser Arg
         115
```

<210> 1513
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1513

Gly Ser Arg
        115

<210> 1514
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1514
Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser
 1   5   10   15

Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala
            20   25   30

Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu
            35   40   45

Ile Ser Phe Leu Phe Ser Ala Trp
    50   55

<210> 1515
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1515
Met Leu Thr Gly Val Ile Ser Gly Ser Thr Gly Ala Met Ala Leu Ser
 1   5   10   15

Leu Ala Ser Leu Ser Ala His Cys Phe Ala Phe Arg Cys Leu Ala Ala
            20   25   30

Pro Phe Tyr Phe Phe Ala Gly Leu Gly Lys His Gly Arg Arg Ile Leu
            35   40   45

Ile Ser Phe Leu Phe Ser Ala Trp
    50   55

<210> 1516
<211> 147
<212> PRT
<213> Homo sapiens

<400> 1516

Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val Leu Phe Leu Leu Gly
1   5   10   15

Thr Leu Val Ile Ala Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp
            20   25   30

Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met
        35   40   45

Trp Ala Tyr Arg Cys Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp
    50   55   60

Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val
65   70   75   80

Gly Ile Ala Ile Tyr Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr
            85   90   95

Thr His Ser Ile Trp His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu
            100   105   110

Leu Pro Pro Pro Asp Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys
        115   120   125

Phe Pro Cys His Tyr Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr
        130   135   140

Ala Val Thr
145

<210> 1517
<211> 147
<212> PRT
<213> Homo sapiens

<400> 1517
Met Ala Arg Leu Lys Thr Val Leu Lys Tyr Val Leu Phe Leu Leu Gly
1   5   10   15

Thr Leu Val Ile Ala Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp
            20   25   30

Asn Met Leu Gly Pro Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met
        35   40   45

Trp Ala Tyr Arg Cys Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp
    50   55   60

Gln Arg Trp Ala Phe Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val
65   70   75   80

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Gly Ile Ala Ile Tyr Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr
                85                  90                  95


Thr His Ser Ile Trp His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu
            100             105             110


Leu Pro Pro Pro Asp Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys
        115             120             125


Phe Pro Cys His Tyr Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr
    130             135             140


Ala Val Thr
145




<210> 1518
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1518
Met Trp Gln Tyr His Arg Leu Ser Cys Thr Ala Trp Gln Pro Val Ile
  1               5                  10                  15


Leu Ser Phe Ser Leu Ser Val Gly His Arg Ile Leu Leu Ala Leu Phe
            20              25                  30


Phe Phe Ile Leu His Leu Ser Ile Leu Ile Ala Thr Glu Cys Arg Pro
            35              40                  45


Trp Tyr Ser Phe His Leu Val Ser Leu Pro Ser Phe Leu Pro Gln Phe
    50              55                  60


Leu Leu Cys Leu Ala Xaa Ile Cys Leu Phe Gly Phe Thr Thr Leu Leu
 65                 70                  75                      80


Phe Ser Phe Cys Cys Gln Val His Val Leu Gly His
                85                  90




<210> 1519
<211> 58
<212> PRT
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<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1519
Asp Tyr Ile Leu Met Arg Gln Leu Arg Pro Ala Asn Phe Cys Ile Phe
 1   5   10   15

Ser Arg Asp Arg Phe His Pro Val Ser Gln Ala Gly Leu Glu Leu Leu
               20   25   30

Thr Ser Ser Asp Leu Xaa Ala Phe Gly Leu Pro Lys Tyr Trp Tyr Tyr
               35   40   45

Arg His Glu Pro Pro Cys Leu Ala Ser Xaa
          50   55

<210> 1520
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1520
Met Ala Ser Trp Pro Phe Leu Ser Pro Met Gly Pro Ile Ala Leu Ala
 1   5   10   15

Leu Leu Thr Gln Ala Leu Ser Ser Xaa Val Gly Leu Cys Leu Ala Leu
               20   25   30

Thr Cys Ser Arg Arg Pro Ser Pro Asp Ser Val Cys Ala Ser Cys Arg
               35   40   45

Phe Pro Leu Val Pro Leu Cys Cys Gln Pro Ser Leu Pro Ala Leu Leu
    50   55   60

Arg Pro Val Ser His Cys Arg Tyr Pro Gly Thr Ser Trp Val Ser Xaa
65   70   75   80

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<210> 1521
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1521
Val Asp Leu Val Ser Val Asn Val Gly Ser Glu Phe Leu Val Thr Leu
  1   5   10   15

Leu Phe Phe Leu Gly Pro Val Thr Gly His Leu Asp Arg Leu Asn Ala
            20   25   30

Ile Leu Glu Leu Asp Ser Tyr Val Phe Ile Cys Thr Pro Xaa Ser His
            35   40   45

Leu Pro Val Ala Ser Ser Asp Ala
    50   55

<210> 1522
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1522
Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala
 1               5                  10                  15

Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly
            20                  25                  30

Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro
         35                  40                  45

Tyr Arg Val Met Gly Xaa Leu His Ser Ser Thr Lys Gly Phe Ser Phe
    50                  55                  60

Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro
 65                  70                  75                  80

Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Xaa Pro Thr Xaa Ser
                85                  90                  95

Cys Pro Gly Tyr Cys His His Val Ser Leu Tyr Pro Val Tyr Ala Leu
                100                 105                 110

Gln Leu Val Leu Xaa Gln Ile Leu Leu Xaa Trp Pro Asn Leu Met Xaa
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1070

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          115                    120                    125

Tyr Trp Tyr Xaa His Leu Met Thr Gly Pro Xaa Ser Asp Gln Lys Arg
    130                    135                    140

Lys Ser Val Val Thr Leu Val
145                    150




<210> 1523
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1523
Arg Val Asp Asn Phe Leu Cys Gln Phe Ile Arg Ile Tyr Leu Ile Leu
  1               5                   10                   15

Leu Ser Ser His Ile Ile Phe His Asn Thr Asn Val Ser Cys Tyr Pro
                20                   25                   30

Met Glu Ser His Leu Leu Phe Ser Tyr Asn Asn Thr Ala Val Ser Ile
            35                   40                   45

Leu Val His Arg Phe Phe Asn Ile Xaa Ile Ser Lys Phe Leu Lys Val
    50                   55                   60

Ile Ser Trp Asp Arg Asn Arg Asn Gly Ile Gly Ile Ser Lys Ser
 65                   70                   75



<210> 1524
<211> 121
<212> PRT
<213> Homo sapiens

<400> 1524
Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala
  1               5                   10                   15

Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly
                20                   25                   30

Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro
            35                   40                   45

                              1071
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Tyr Arg Val Met Gly Gln Leu His Ser Ser Thr Lys Gly Phe Ser Phe
    50   55   60

Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro
65   70   75   80

Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Val Pro Thr Val Ser
                85   90   95

Cys Pro Gly Tyr Cys Pro Ser Cys Phe Ser Val Ser Cys Leu Cys Phe
                100   105   110

Thr Thr Gly Pro Ser Ser Asn Ser Ala
            115   120

<210> 1525
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1525
Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe
  1   5   10   15

Cys Phe Xaa Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe
            20   25   30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln
            35   40   45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg
    50   55   60

Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu
65   70   75   80

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile
                85   90

<210> 1526
<211> 66
<212> PRT

1072

<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1526
Ser Thr Leu Xaa Val Thr Phe Ile Cys Ser Ser Arg Xaa Leu Leu Arg
 1   5   10   15

Glu Arg Gly Ala Val Leu Lys Thr Asn Pro Ile Pro Ile Leu Leu Lys
                20   25   30

Lys Pro Leu Leu Cys Pro Ser Phe Ile His Asn Leu Val Pro His Pro
            35   40   45

His Leu Pro Gln Leu Leu Leu Phe Ser Asn Phe Leu Cys Arg Cys Pro
        50   55   60

Tyr His
 65

<210> 1527
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1527
Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe
 1   5   10   15

Cys Phe Val Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe
                20   25   30

Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln
            35   40   45

Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg
        50   55   60

Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu
 65   70   75   80

Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile

                                1073

<210> 1528
<211> 336
<212> PRT
<213> Homo sapiens

<400> 1528
Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu
 1   5   10   15

Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro
            20   25   30

Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln
        35   40   45

Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro
    50   55   60

Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala
65   70   75   80

Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly
            85   90   95

Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala
            100   105   110

Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe
            115   120   125

Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala
    130   135   140

Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro
145   150   155   160

Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser
            165   170   175

Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly
            180   185   190

Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val
            195   200   205

Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Gln
    210   215   220

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Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly
225             230             235             240

His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala
                245             250             255

Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser
            260             265             270

Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala
        275             280             285

Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu
    290             295             300

Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe
305             310             315             320

Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val
            325             330             335


<210> 1529
<211> 336
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1529
Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu
  1             5              10             15

Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro
            20             25             30

Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln
        35             40             45

Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro
    50             55             60

Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala
 65             70             75             80
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Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly
                    85   90   95

Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala
                100   105   110

Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe
        115   120   125

Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala
        130   135   140

Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro
145   150   155   160

Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser
                165   170   175

Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly
            180   185   190

Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val
            195   200   205

Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Xaa
        210   215   220

Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly
225   230   235   240

His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala
                245   250   255

Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser
            260   265   270

Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala
            275   280   285

Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu
        290   295   300

Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe
305   310   315   320

Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val
            325   330   335

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1076

<210> 1530
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1530
Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val
1   5   10   15

Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg
            20   25   30

Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr
        35   40   45

His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe
        50   55   60

Leu Phe Asp Ala Gln Glu Asp Pro Ser Ala Leu Asp Ile Ala Ser Pro
65   70   75   80

Gly Gly Met Ala Ala Glu Asp Glu Ile Gln Arg Gln Arg
            85   90

<210> 1531
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1531
Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg
1   5   10   15

Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala
            20   25   30

Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu
        35   40   45

Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr
        50   55   60

Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ser Thr Ile Met Asp
65   70   75   80

1077

Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln
                85   90   95

Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro
             100   105   110

Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr
         115   120   125

Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp
     130   135   140

Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr
145   150   155   160

Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe
             165   170   175

Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala
         180   185   190

Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg
         195   200   205

Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg
     210   215

<210> 1532
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1532
Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
  1   5   10   15

Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser
             20   25   30

Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
         35   40   45

Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
     50   55   60

Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
 65   70   75   80

Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys

1078

Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
          100   105   110

Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly
         115   120   125

Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
     130   135   140

Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile
145   150   155   160

Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His
         165   170   175

Cys Arg

<210> 1533
<211> 152
<212> PRT
<213> Homo sapiens

<400> 1533
Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp
 1   5   10   15

Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp
         20   25   30

Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg
        35   40   45

Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr
       50   55   60

Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser
65   70   75   80

Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu
         85   90   95

Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu
         100   105   110

Arg Gly Gly Phe Leu Gly Ser Ser Gln Asp Arg Ser Ala Tyr Gln Thr
        115   120   125

Ile Asp Ser Ala Glu Ala Pro Ala Asp Pro Phe Ala Val Pro Glu Gly
    130   135   140

Arg Ser Gln Asp Ala Arg Gly Tyr
145   150

<210> 1534
<211> 159
<212> PRT
<213> Homo sapiens

<400> 1534
Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp
 1   5   10   15

Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp
            20   25   30

Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg
        35   40   45

Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr
    50   55   60

Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser
65   70   75   80

Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu
            85   90   95

Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu
            100   105   110

Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser Ser Gln
            115   120   125

Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro Ala Asp
    130   135   140

Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly Tyr
145   150   155

<210> 1535
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1535

Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp
 1   5   10   15

Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp
                 20   25   30

Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu
             35   40   45

Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys
     50   55   60

Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe
65   70   75   80

Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe
             85   90

<210> 1536
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1536
Ser Ala Thr His Gln Gln Ala Leu Val Cys Asp Val Leu Leu Pro Val
 1   5   10   15

Ser Met Cys Ser His Glu Asn Leu Tyr Ile Leu Cys Ser Gly Val Ser
                 20   25   30

Tyr Phe Ile Phe Phe Phe Ser Cys Val Thr Ser Val Thr Ser Gly Leu
             35   40   45

Gly Ile Pro Ser Tyr Pro Glu Val Arg Lys Tyr Ser Ser Ile Phe Phe
     50   55   60

<210> 1537
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1537
Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp
 1   5   10   15

1081

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Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp
            20                  25                  30

Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu
            35                  40                  45

Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys
        50                  55                  60

Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe
65                  70                  75                  80

Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe
                85                  90
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<210> 1538
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1538
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Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn
  1               5                  10                  15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe
            20                  25                  30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu
            35                  40                  45
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Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile
    50   55   60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser
65   70   75   80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Xaa Lys Cys Glu
                85   90   95

Val Xaa Pro His Cys Ser Leu Xaa Cys Xaa Phe Leu Ile Thr Met Met
            100   105   110

<210> 1539
<211> 113
<212> PRT
<213> Homo sapiens

<400> 1539
Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn
  1   5   10   15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe
                20   25   30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu
            35   40   45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile
    50   55   60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser
65   70   75   80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu
                85   90   95

Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp
            100   105   110

Val

<210> 1540
<211> 113
<212> PRT

<213> Homo sapiens

<400> 1540
Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn
1   5   10   15

Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe
            20   25   30

Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu
        35   40   45

Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile
    50   55   60

Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser
65   70   75   80

Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu
            85   90   95

Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp
            100   105   110

Val

<210> 1541
<211> 111
<212> PRT
<213> Homo sapiens

<400> 1541
Met Arg Met Ser Leu Ala Asp Ser Leu Ala Cys Ser Val Cys Val Ala
1   5   10   15

Leu Thr Ala Ala Ala Arg Leu Leu Arg Ser Arg Pro Ser Ser Cys Ser
            20   25   30

Ser Phe Ser Trp Ile Ser Gly Thr Ser Ser Ser Pro Ser Phe Leu Gly
        35   40   45

Ser Phe Thr Ser Leu Leu Gly Ser Ser Leu Ser Ser Leu Gly Asp Ser
    50   55   60

Leu Leu Gly Arg Gly Thr Leu Gly Asn Phe Trp Glu Val Leu Ile Ser
65   70   75   80

Thr Ser Thr Ser Ser Trp Ala Asp Phe Ser Ser Leu Val Ser Thr Ser
            85   90   95

1084

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Pro Lys Val Arg Val Pro Leu Arg Pro Ile Phe Thr Cys Phe Leu
            100                 105                 110


<210> 1542
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1542
Gly Phe Xaa Ala Ala Ala Ala Ala Ala Val Val Ala Ala Ala Ala
  1           5                  10                  15


Ala Ala Ser Val Glu Gly Arg Gln Pro Pro Gly Leu Gly Ala Val Gly
            20                  25                  30


Pro Ala Gly Arg Xaa Ala Gly Ser Xaa Gly Xaa Arg Met Pro Ala Gly
            35                  40                  45


Arg Val Ala Gly Ala Val Thr Gly Leu Gly Val Ser Trp Leu Arg Gly
```

```
          50                    55                         60
Lys Asn Ser Gly Val Pro Gly Ala Ala Leu Pro Pro Ala Ala Pro Ser
 65                  70                  75                  80

Val Ala Ser Leu Val Ala His Ser Gly Pro Ala Val Gly Pro Pro Leu
                85                  90                  95

Ser Pro Xaa Ser Val Pro Gln Gly Gly Tyr Ser Lys Ser Gly Leu Pro
            100                 105                 110

Leu Gln Asp Ala Gly Ser Pro Trp Xaa His Cys Arg Gly Thr Asp Cys
            115                 120                 125

Gly Ser Ser Met Leu Asn Gly Val Glu Ala Gly Leu Ala Ala Ala Ala
    130                 135                 140

Ser Cys Cys His
145


<210> 1543
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1543
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
 1               5                   10                  15

Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
                20                  25                  30

Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
            35                  40                  45
```

Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
    50   55   60

Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
 65   70   75   80

Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr
                85   90   95

Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
             100   105   110

Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
         115   120   125

Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
     130   135   140

Phe Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Thr
145   150   155   160

Met Ala Pro Thr Trp Gln Leu His Ser Gly Leu Gly Gly Pro Gly Leu
             165   170   175

Pro Gly Ser Xaa Xaa Tyr Ser Pro Gln Val Glu Gly Ala Xaa Gly
             180   185   190

<210> 1544
<211> 165
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1544
Asn Xaa Phe Ala Xaa Trp Xaa Gln Lys Asp Thr Leu Arg Ile Gln Trp
 1   5   10   15

Lys Lys His Ser Tyr Pro Phe Val Thr Phe Gln Xaa Tyr Ser Leu Ile
             20   25   30

Xaa His Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys
         35   40   45

Asn Thr Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro
     50   55   60

Ile Asp Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu
 65   70   75   80

Arg Leu Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu
             85   90   .   95

Asn Ile Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His
             100   105   110

Gly Tyr Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn
         115   120   125

Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp
     130   135   140

Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe
145   150   155   160

Leu Asn Tyr Ile Cys
                165

<210> 1545
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1545
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
 1   5   10   15

Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
              20   25   30

Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
         35   40   45

Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
      50   55   60

Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
 65   70   75   80

Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr
              85   90   95

Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
             100   105   110

Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
        115   120   125

Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
        130   135   140

Ser Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn
145   150   155   160

Asn Gly Thr Tyr Leu Val Ser Phe Thr Leu Phe Trp Glu Gly Gln Xaa
                165   170   175

Xaa Leu Xaa Leu Leu Leu Ile His Pro Ser Glu Gly Ala Ser Ala Xaa
            180   185   190

Trp Arg Ala Arg Asn Gln Gly Tyr Asp Lys Ile Ile Phe Lys Gly Lys
        195   200   205

Phe Val Asn Gly Thr Ser His Val Phe Thr Glu Cys Gly Leu Thr Leu
        210   215   220

Asn Ser Asn Ala Glu Leu Cys Glu Tyr Leu Asp Asp Arg Asp Gln Glu
225   230   235   240

Ala Phe Tyr Cys Met Lys Pro Gln His Met Pro Cys Glu Ala Leu Thr
                245   250   255

Tyr Met Thr Thr Arg Asn Arg Glu Val Ser Tyr Leu Thr Asp Lys Glu
            260   265   270

Asn Ser Leu Phe His Arg Ser Lys Val Gly Val Glu Met Met Lys Asp
        275   280   285

Arg Lys His Ile Asp Xaa Thr Asn Xaa Asn Lys Arg Glu Xaa Ile
        290   295   300

<210> 1546
<211> 1
<212> PRT
<213> Homo sapiens

<400> 1546
Met
  1

<210> 1547
<211> 547

1090

```
<212> PRT
<213> Homo sapiens

<400> 1547
Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser
 1               5                  10                  15

Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr
            20                  25                  30

Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn
            35                  40                  45

Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys
        50                  55                  60

Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu
 65                  70                  75                  80

Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr
                85                  90                  95

Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr
            100                 105                 110

Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu
            115                 120                 125

Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser
        130                 135                 140

Ser Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn
145                 150                 155                 160

Asn Gly Thr Tyr Leu Val Ser Phe Thr Leu Phe Trp Glu Gly Gln Val
            165                 170                 175

Ser Leu Ser Leu Leu Leu Ile His Pro Ser Glu Gly Ala Ser Ala Leu
            180                 185                 190

Trp Arg Ala Arg Asn Gln Gly Tyr Asp Lys Ile Ile Phe Lys Gly Lys
            195                 200                 205

Phe Val Asn Gly Thr Ser His Val Phe Thr Glu Cys Gly Leu Thr Leu
        210                 215                 220

Asn Ser Asn Ala Glu Leu Cys Glu Tyr Leu Asp Asp Arg Asp Gln Glu
225                 230                 235                 240

Ala Phe Tyr Cys Met Lys Pro Gln His Met Pro Cys Glu Ala Leu Thr
            245                 250                 255
```

Tyr Met Thr Thr Arg Asn Arg Glu Val Ser Tyr Leu Thr Asp Lys Glu
        260   265   270

Asn Ser Leu Phe His Arg Ser Lys Val Gly Val Glu Met Met Lys Asp
        275   280   285

Arg Lys His Ile Asp Val Thr Asn Cys Asn Lys Arg Glu Lys Ile Glu
    290   295   300

Glu Thr Cys Gln Val Gly Met Lys Pro Pro Val Pro Gly Gly Tyr Thr
305   310   315   320

Leu Gln Gly Lys Trp Ile Thr Thr Phe Cys Asn Gln Val Gln Leu Asp
            325   330   335

Thr Ile Lys Ile Asn Gly Cys Leu Lys Gly Lys Leu Ile Tyr Leu Leu
            340   345   350

Gly Asp Ser Thr Leu Arg Gln Trp Ile Tyr Tyr Phe Pro Lys Val Val
        355   360   365

Lys Thr Leu Lys Phe Phe Asp Leu His Glu Thr Gly Ile Phe Lys Lys
    370   375   380

His Leu Leu Leu Asp Ala Glu Arg His Thr Gln Ile Gln Trp Lys Lys
385   390   395   400

His Ser Tyr Pro Phe Val Thr Phe Gln Leu Tyr Ser Leu Ile Asp His
            405   410   415

Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys Asn Thr
            420   425   430

Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro Ile Asp
        435   440   445

Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu Arg Leu
    450   455   460

Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu Asn Ile
465   470   475   480

Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His Gly Tyr
            485   490   495

Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn Val Gly
        500   505   510

Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp Thr Ile
        515   520   525

His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe Leu Asn

1092

```
            530                    535                    540

Tyr Ile Cys
545


<210> 1548
<211> 246
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (243)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1548
Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu
  1               5                  10                  15

Gln Leu Gln Phe Ala Ala Leu Leu Gly Thr Leu Ser Xaa Gln Val
               20                  25                  30

His Thr Leu Arg Pro Glu Asn Leu Leu Leu Val Ser Thr Leu Asp Gly
            35                  40                  45

Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu
        50                  55                  60

Arg Asp Asp Pro Val Ile Glu Gly Pro Met Tyr Val Thr Glu Met Ala
 65                  70                  75                  80

Phe Leu Ser Asp Pro Ala Asp Gly Ser Leu Tyr Ile Leu Gly Thr Gln
                85                  90                  95

Lys Gln Gln Gly Leu Met Lys Leu Pro Phe Thr Ile Pro Glu Leu Val
```

His Ala Ser Pro Cys Arg Ser Ser Asp Gly Val Phe Tyr Thr Gly Arg
        115   120   125

Lys Gln Asp Ala Trp Phe Val Val Asp Pro Glu Ser Gly Glu Thr Gln
    130   135   140

Met Thr Leu Thr Thr Glu Gly Pro Ser Thr Pro Arg Leu Tyr Ile Gly
145   150   155   160

Arg Thr Gln Tyr Thr Val Thr Met His Asp Pro Arg Ala Pro Ala Leu
            165   170   175

Arg Trp Asn Thr Thr Tyr Arg Arg Tyr Ser Thr Pro Pro Met Asp Gly
            180   185   190

Ser Thr Gly Lys Tyr Met Ser Gln Leu Gly Val Leu Arg Glu Gly Pro
            195   200   205

Ala Ala His Xaa Gly Thr Pro Gly Ser Gly Thr Xaa Leu Leu Asp Thr
    210   215   220

Arg Asn Leu Gly Arg Ala Leu Gly Asn Gly Pro Ala Thr Pro Leu Gly
225   230   235   240

Thr Lys Xaa Arg Ala Trp
            245

<210> 1549
<211> 473
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (386)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (391)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1549

Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu
 1   5   10   15

Gln Leu Gln Phe Ala Ala Leu Leu Leu Gly Thr Leu Ser Pro Gln Val
              20   25   30

His Thr Leu Arg Pro Glu Asn Leu Leu Leu Val Ser Thr Leu Asp Gly
          35   40   45

Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu
      50   55   60

Arg Asp Asp Pro Val Ile Glu Gly Pro Met Tyr Val Thr Glu Met Ala
 65   70   75   80

Phe Leu Ser Asp Pro Ala Asp Gly Ser Leu Tyr Ile Leu Gly Thr Gln
              85   90   95

Lys Gln Gln Gly Leu Met Lys Leu Pro Phe Thr Ile Pro Glu Leu Val
          100   105   110

His Ala Ser Pro Cys Arg Ser Ser Asp Gly Val Phe Tyr Thr Gly Arg
      115   120   125

Lys Gln Asp Ala Trp Phe Val Val Asp Pro Glu Ser Gly Glu Thr Gln
      130   135   140

Met Thr Leu Thr Thr Glu Gly Pro Ser Thr Pro Arg Leu Tyr Ile Gly
145   150   155   160

Arg Thr Gln Tyr Thr Val Thr Met His Asp Pro Arg Ala Pro Ala Leu
                165   170   175

Arg Trp Asn Thr Thr Tyr Arg Arg Tyr Ser Ala Pro Pro Met Asp Gly
          180   185   190

Ser Pro Gly Lys Tyr Met Ser His Leu Ala Ser Cys Gly Met Gly Leu
      195   200   205

Leu Leu Thr Val Asp Pro Gly Ser Gly Thr Val Leu Trp Thr Gln Asp
      210   215   220

Leu Gly Val Pro Val Met Gly Val Tyr Thr Trp His Gln Asp Gly Leu
225   230   235   240

Arg Gln Leu Pro His Leu Thr Leu Ala Arg Asp Thr Leu His Phe Leu
              245   250   255

Ala Leu Arg Trp Gly His Ile Arg Leu Pro Ala Ser Gly Pro Arg Asp
          260   265   270

Thr Ala Thr Leu Phe Ser Thr Leu Asp Thr Gln Leu Leu Met Thr Leu

1095

```
        275                    280                    285
Tyr Val Gly Lys Asp Glu Thr Gly Phe Tyr Val Ser Lys Ala Leu Val
    290                    295                    300

His Thr Gly Val Ala Leu Val Pro Arg Gly Leu Thr Leu Ala Pro Ala
305                    310                    315                    320

Xaa Gly Pro Thr Thr Asp Glu Val Thr Leu Gln Val Ser Gly Glu Arg
                325                    330                    335

Glu Gly Ser Pro Ser Thr Ala Val Arg Tyr Pro Ser Gly Ser Val Ala
                340                    345                    350

Leu Pro Ser Gln Trp Leu Leu Ile Gly His His Glu Leu Pro Pro Val
                355                    360                    365

Leu His Thr Thr Met Leu Arg Val His Pro Thr Leu Gly Ser Gly Thr
    370                    375                    380

Ala Xaa Thr Arg Pro Pro Xaa Asn Thr Gln Ala Pro Ala Phe Phe Leu
385                    390                    395                    400

Glu Leu Leu Ser Leu Ser Arg Glu Lys Leu Trp Asp Ser Glu Leu His
                405                    410                    415

Pro Glu Glu Lys Thr Pro Asp Ser Tyr Leu Gly Leu Gly Pro Gln Asp
                420                    425                    430

Leu Leu Ala Ala Ser Leu Thr Ala Val Leu Leu Gly Gly Trp Ile Leu
                435                    440                    445

Phe Val Met Arg Gln Gln Gln Pro Gln Val Val Glu Lys Gln Gln Glu
    450                    455                    460

Thr Pro Leu Ala Pro Ala Ala Trp Gly
465                    470


<210> 1550
<211> 98
<212> PRT
<213> Homo sapiens

<400> 1550
Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu
  1               5                   10                  15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu
              20                  25                  30
```

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro
        35   40   45

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly Gly His His
    50   55   60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu
65   70   75   80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala
            85   90   95

Leu Ala

<210> 1551
<211> 98
<212> PRT
<213> Homo sapiens

<400> 1551
Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu
 1   5   10   15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu
            20   25   30

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro
        35   40   45

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly Gly His His
    50   55   60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu
65   70   75   80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala
            85   90   95

Leu Ala

<210> 1552
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1552

```
Met Gly Val Leu Trp Tyr Thr Phe Trp Tyr Thr Phe Thr Leu Leu Glu
 1               5                  10                  15

Cys Ser Arg Ser Ser Asn Asp Ser Arg Thr Leu Val Leu Ile Cys Leu
                20                  25                  30

Ser Leu Leu Gly Phe Asp Phe Val Arg Val Leu Asn Ile Lys Leu Ala
            35                  40                  45

Val Gly Glu Ser Thr Leu His Met Leu Ser Leu Pro Phe Ser Leu Arg
        50                  55                  60

Leu Ser Pro Ala Leu Pro Phe Ser Pro Phe Leu Leu Leu Met Asn Lys
 65                  70                  75                  80

Pro Leu Ser Asp Val Gln Tyr Phe Asn Leu His Phe Ala Gly
                    85                  90
```

<210> 1553
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1553
```
Xaa Xaa Tyr Asp Glu Lys Leu Ile Phe Ile Gln Ile Leu Gln Thr Lys
 1               5                  10                  15

Ala Thr Asp Lys Tyr Ser Glu Gln Val Ser Gln Val Gly Pro Gly Ala
                20                  25                  30

Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly
            35                  40                  45

Ser
```

<210> 1554
<211> 141

1098

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1554
Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu
1   5   10   15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg
            20   25   30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr
        35   40   45

Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr
    50   55   60

Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro
65   70   75   80

His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro
            85   90   95

Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr
        100   105   110

Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val
        115   120   125

Glu Trp Glu His Leu Ser Pro Phe Asn Thr Ala Xaa Ala
    130   135   140

<210> 1555
<211> 141
<212> PRT
<213> Homo sapiens

<400> 1555
Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu
1   5   10   15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg
            20   25   30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr
        35   40   45

1099

```
Met Cys Ala Tyr Gly Cys His His Pro Thr Phe Ala Gly Val Tyr Thr
     50                  55                  60

Pro Ser His Thr Thr Val Ala Thr Ser Ile Cys Thr Gln Thr Pro Pro
 65              70                  75                  80

His Gln Cys Cys Trp Ser Glu His Thr His Val Val Ser Thr Thr Pro
             85                  90                  95

Leu Leu Pro Ala Tyr Met His Met Ser Met Asp Pro Ala Ala Thr Thr
             100                 105                 110

Gln Met Lys Cys Phe Cys Arg His Pro Ile Arg Ala Phe Leu Pro Val
             115                 120                 125

Glu Trp Glu His Leu Ser Pro Ser Asn Thr Ala Gly Ala
     130                 135                 140
```

<210> 1556
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1556
```
Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys
 1               5                   10                  15

Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu
             20                  25                  30

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys
             35                  40                  45

Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val
     50                  55                  60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly
 65                  70                  75                  80

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu
                 85                  90
```

<210> 1557
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1557
Glu Glu His Gly Ile Thr Ser Val Ile Phe Leu Pro Gln Val His Asn
 1   5   10   15

Leu Asn Leu Ile Ile Arg Lys His Gln Thr Asn Pro Asn Gln Glu Thr
                20   25   30

Leu Tyr Lys Ile Met Thr Cys Asp Pro Gln Asn Leu Gln Gly His Glu
        35   40   45

Gln Gln Gly Lys Thr Glu Asp Lys Cys Thr Val
        50   55

<210> 1558
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1558
Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys
 1   5   10   15

Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu
                20   25   30

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys
        35   40   45

Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val
        50   55   60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly
 65   70   75   80

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu
                85   90

<210> 1559
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1559
Met Leu Leu Gln Arg Thr Arg Phe Leu Leu Leu Phe Phe Ser Phe Val
 1   5   10   15

Ser Ser Phe Phe Leu Ser Leu Pro Ser Phe Ser Leu Phe Phe Leu Phe
            20   25   30

Leu Ser Leu Ser Leu Phe Cys Ile His Val Ala Ala Lys Asp Met Ile
            35   40   45

Ser Ser Phe Phe Ser Leu Pro Phe Ser Phe Leu Ser Phe Xaa Leu Ser
        50   55   60

Phe Leu Leu Pro Ser Phe Ser Phe Phe Tyr Phe Phe Phe Phe Trp Leu
 65   70   75   80

Ser Phe Phe Phe Xaa Ser Lys Xaa Leu Ala Leu Val Pro Lys Xaa Gly
                85   90   95

Met Gln Xaa Val
            100

<210> 1560
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

1102

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1560
Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
 1   5   10   15

Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
             20   25   30

Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
         35   40   45

Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Leu Tyr Ser
     50   55   60

Trp Cys Thr Pro Arg Leu Xaa Ser Trp Leu Arg Asp Thr Pro Ser Pro
65   70   75   80

Leu Ala Ser Gly Thr Xaa Pro
                 85

<210> 1561
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1561
Val Arg Ala Met Phe Gly Phe Leu Ala Cys Val Ser Ser Leu Arg Val
 1   5   10   15

Met Ala Ser Ser Ser Ser His Val Thr Ser Glu Asp Met Ile Leu Phe
             20   25   30

Leu Ile Ser Cys Gly Ile Tyr Val Pro His Phe Leu Tyr Pro Val Asp
         35   40   45

Arg

<210> 1562
<211> 168
<212> PRT
<213> Homo sapiens

1103

<400> 1562

```
Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu
 1               5                   10                  15

Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly
            20              25                  30

Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro
            35              40                  45

Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Leu Tyr Ser
        50              55                  60

Trp Cys Thr Pro Arg Leu Leu Ser Trp Leu Arg Asp Thr Pro Ser Pro
 65              70                  75                      80

Leu Ala Ser Gly Thr Phe Pro Pro His Ser Pro Leu Gly Glu Arg Pro
                85                  90                  95

Leu Leu Ser Gly Pro Pro Ser Ser Ser Gln Gln Leu Leu Val Val Gly
            100             105                 110

Pro Cys Ala Leu Arg Phe Val Gly Ala Arg His Val Lys Thr Ala Gly
            115             120                 125

Phe Arg Asp Gly Phe Ser Leu Pro Ser Ser Ser Val Phe Ser Glu Phe
        130             135                 140

Trp Lys Met Thr Leu Leu Glu Ala Pro Leu Leu Cys His Leu Ser Ser
145             150                 155                     160

Lys Ser Gly Ala Ser Ala Cys Trp
                165
```

<210> 1563
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1563
Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly
 1   5   10   15

Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
            20   25   30

Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp
            35   40   45

Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys
        50   55   60

Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr
 65   70   75   80

Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu
                85   90   95

Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala
            100   105   110

Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly
            115   120   125

Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Xaa Gln Leu Ala Thr
        130   135   140

Gly Gln Ala Gly Ile Ile Leu Val Ser Val Xaa Pro Ala Tyr Gln Ala
145   150   155   160

Met Glu Trp Ser Xaa Ser Ser Lys Lys Trp Ala Ser Xaa Ala Leu Val
                165   170   175

1105

```
Val Pro Lys Gln Phe Lys Thr Lys His Asn Thr Thr Phe Leu Lys Gln
            180                 185                 190

Ile Xaa Pro Xaa Trp Arg Met Pro
        195                 200



<210> 1564
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1564
Met Ala Xaa Tyr Val Gly Met Leu Arg Leu Gly Xaa Leu Cys Ala Gly
 1               5                 10                  15

Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
            20                  25                  30

Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Gly
        35                  40                  45

Ser His Gly Leu His Ala His Arg Xaa Ala Ser Ala Thr Xaa Arg Gly
    50                  55                  60
```

```
Ala Pro Lys Ser Ile Leu Thr Ala Arg Leu Trp Ala Ser Ala Trp Xaa
 65                  70                  75                  80

Pro Gln His Arg Gly Ser Gln Asn Glu Arg Pro Trp Ser Ser Ser Met
                 85                  90                  95

Lys Thr Ser Gly
             100
```

```
<210> 1565
<211> 461
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (424)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (459)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1565
Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly
 1               5                   10                  15

Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln
                 20                  25                  30

Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp
             35                  40                  45

Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys
         50                  55                  60

Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr
 65                  70                  75                  80

Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu
                 85                  90                  95

Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala
             100                 105                 110

Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly
             115                 120                 125

Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Met Gln Leu Ala Thr
```

1107

```
      130                    135                    140

Ala Gln Ala Gly Ile Ile Leu Val Ser Val Asn Pro Ala Tyr Gln Ala
145                 150                 155                 160

Met Glu Leu Glu Tyr Val Leu Lys Lys Val Gly Cys Lys Ala Leu Val
                165                 170                 175

Phe Pro Lys Gln Phe Lys Thr Gln Gln Tyr Tyr Asn Val Leu Lys Gln
            180                 185                 190

Ile Cys Pro Glu Val Glu Asn Ala Gln Pro Gly Ala Leu Lys Ser Gln
            195                 200                 205

Arg Leu Pro Asp Leu Thr Thr Val Ile Ser Val Asp Ala Pro Leu Pro
        210                 215                 220

Gly Thr Leu Leu Leu Asp Glu Val Val Ala Ala Gly Ser Thr Arg Gln
225                 230                 235                 240

His Leu Asp Gln Leu Gln Tyr Asn Gln Gln Phe Leu Ser Cys His Asp
                245                 250                 255

Pro Ile Asn Ile Gln Phe Thr Ser Gly Thr Thr Gly Ser Pro Lys Gly
            260                 265                 270

Ala Thr Leu Ser His Tyr Asn Ile Val Asn Asn Ser Asn Ile Leu Gly
        275                 280                 285

Glu Arg Leu Lys Leu His Glu Lys Thr Pro Glu Gln Leu Arg Met Ile
    290                 295                 300

Leu Pro Asn Pro Leu Tyr His Cys Leu Gly Ser Val Ala Gly Thr Met
305                 310                 315                 320

Met Cys Leu Met Tyr Gly Ala Thr Leu Ile Leu Ala Ser Pro Ile Phe
                325                 330                 335

Asn Gly Lys Lys Ala Leu Glu Ala Ile Ser Arg Glu Arg Gly Thr Phe
            340                 345                 350

Leu Tyr Gly Thr Pro Thr Met Phe Val Asp Ile Leu Asn Gln Pro Asp
            355                 360                 365

Phe Ser Ser Tyr Asp Ile Ser Thr Met Cys Gly Gly Val Ile Ala Gly
    370                 375                 380

Ser Pro Ala Pro Pro Glu Leu Ile Arg Ala Ile Ile Asn Lys Ile Asn
385                 390                 395                 400

Met Lys Asp Leu Val Val Ala Tyr Gly Thr Thr Glu Asn Ser Pro Val
                405                 410                 415

                            1108
```

```
Thr Phe Ala His Phe Pro Glu Xaa Thr Pro Lys Pro Leu Asp Lys Glu
        420             425             430

Lys Arg Ala Glu Tyr Ala Ser His Gly Gly Glu Pro Leu Thr Lys Thr
        435             440             445

Ser Lys Ser His Leu Pro Ser Pro Ser Trp Xaa Gly Ser
    450             455             460
```

```
<210> 1566
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1566
Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala
  1             5              10                  15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro
            20              25                  30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr
        35              40                  45

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
    50              55                  60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu
 65             70              75                      80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile
            85              90                  95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe
            100             105                 110

Gly Gln Glu Ala Phe Arg Phe Thr Xaa Xaa Leu Ala Arg Gly Val Ile
            115             120                 125
```

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe
    130   135   140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys
145   150   155   160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Ser Ser Ile Leu
                165   170   175

Gly

<210> 1567
<211> 255
<212> PRT
<213> Homo sapiens

<400> 1567
Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala
  1   5   10   15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro
                20   25   30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr
            35   40   45

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
    50   55   60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Gln Arg Leu Glu
 65   70   75   80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile
                85   90   95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe
            100   105   110

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile
            115   120   125

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe
    130   135   140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys
145   150   155   160

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe
                165   170   175

1110

Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln
            180   185   190

Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn
            195   200   205

Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val
    210   215   220

Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val
225   230   235   240

Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln
            245   250   255

<210> 1568
<211> 255
<212> PRT
<213> Homo sapiens

<400> 1568
Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala
  1   5   10   15

Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro
            20   25   30

Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr
            35   40   45

Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu
        50   55   60

Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu
 65   70   75   80

Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile
                85   90   95

Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe
            100   105   110

Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile
            115   120   125

Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe
    130   135   140

Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys

Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe
                165   170   175

Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln
                180   185   190

Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn
                195   200   205

Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val
        210   215   220

Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val
225   230   235   240

Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln
                245   250   255

<210> 1569
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1569
Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
  1   5   10   15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
                20   25   30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Xaa Ile Pro
        35   40   45

Pro Leu Ser Pro
    50

<210> 1570
<211> 1134
<212> PRT
<213> Homo sapiens

<400> 1570

```
Val Leu Phe Arg Pro Gln Ala Gln Arg Pro Pro Ser Cys Val Gly Gly
1               5                   10                  15

Ser Ala Val Arg Arg Trp Gln Gly Gln Pro Gln Pro Gln Arg Pro Gly
                20                  25                  30

Glu Glu Lys Ala Ala Ala Ala Ile Leu Gly Gly Pro Gly Gly Gly Glu
            35                  40                  45

Glu Glu Lys Glu Glu Gly Gly Gly Arg Ala Trp Leu Arg Leu Leu Glu
        50                  55                  60

Glu Leu Ala Ala Ala Arg Pro Gly Glu Pro Ala Leu Met Ser Ser Ser
65                  70                  75                  80

Pro Leu Ser Lys Lys Arg Arg Val Ser Gly Pro Asp Pro Lys Pro Gly
                85                  90                  95

Ser Asn Cys Ser Pro Ala Gln Ser Val Leu Ser Glu Val Pro Ser Val
            100                 105                 110

Pro Thr Asn Gly Met Ala Lys Asn Gly Ser Glu Ala Asp Ile Asp Glu
            115                 120                 125

Gly Leu Tyr Ser Arg Gln Leu Tyr Val Leu Gly His Glu Ala Met Lys
        130                 135                 140

Arg Leu Gln Thr Ser Ser Val Leu Val Ser Gly Leu Arg Gly Leu Gly
145                 150                 155                 160

Val Glu Ile Ala Lys Asn Ile Ile Leu Gly Gly Val Lys Ala Val Thr
                165                 170                 175

Leu His Asp Gln Gly Thr Ala Gln Trp Ala Asp Leu Ser Ser Gln Phe
            180                 185                 190

Tyr Leu Arg Glu Glu Asp Ile Gly Lys Asn Arg Ala Glu Val Ser Gln
        195                 200                 205

Pro Arg Leu Ala Glu Leu Asn Ser Tyr Val Pro Val Thr Ala Tyr Thr
    210                 215                 220

Gly Pro Leu Val Glu Asp Phe Leu Ser Gly Phe Gln Val Val Val Leu
225                 230                 235                 240

Thr Asn Thr Pro Leu Glu Asp Gln Leu Arg Val Gly Glu Phe Cys His
            245                 250                 255

Asn Arg Gly Ile Lys Leu Val Val Ala Asp Thr Arg Gly Leu Phe Gly
        260                 265                 270
```

1113

```
Gln Leu Phe Cys Asp Phe Gly Glu Glu Met Ile Leu Thr Asp Ser Asn
        275                 280                 285

Gly Glu Gln Pro Leu Ser Ala Met Val Ser Met Val Thr Lys Asp Asn
        290                 295                 300

Pro Gly Val Val Thr Cys Leu Asp Glu Ala Arg His Gly Phe Glu Ser
305                 310                 315                 320

Gly Asp Phe Val Ser Phe Ser Glu Val Gln Gly Met Val Glu Leu Asn
                325                 330                 335

Gly Asn Gln Pro Met Glu Ile Lys Val Leu Gly Pro Tyr Thr Phe Ser
        340                 345                 350

Ile Cys Asp Thr Ser Asn Phe Ser Asp Tyr Ile Arg Gly Gly Ile Val
        355                 360                 365

Ser Gln Val Lys Val Pro Lys Lys Ile Ser Phe Lys Ser Leu Val Ala
        370                 375                 380

Ser Leu Ala Glu Pro Asp Phe Val Val Thr Asp Phe Ala Lys Phe Ser
385                 390                 395                 400

Arg Pro Ala Gln Leu His Ile Gly Phe Gln Ala Leu His Gln Phe Cys
                405                 410                 415

Ala Gln His Gly Arg Pro Pro Arg Pro Arg Asn Glu Glu Asp Ala Ala
                420                 425                 430

Glu Leu Val Ala Leu Ala Gln Ala Val Asn Ala Arg Ala Leu Pro Ala
        435                 440                 445

Val Gln Gln Asn Asn Leu Asp Glu Asp Leu Ile Arg Lys Leu Ala Tyr
        450                 455                 460

Val Ala Ala Gly Asp Leu Ala Pro Ile Asn Ala Phe Ile Gly Gly Leu
465                 470                 475                 480

Ala Ala Gln Glu Val Met Lys Ala Cys Ser Gly Lys Phe Met Pro Ile
                485                 490                 495

Met Gln Trp Leu Tyr Phe Asp Ala Leu Glu Cys Leu Pro Glu Asp Lys
                500                 505                 510

Glu Val Leu Thr Glu Asp Lys Cys Leu Gln Arg Gln Asn Arg Tyr Asp
        515                 520                 525

Gly Gln Val Ala Val Phe Gly Ser Asp Leu Gln Glu Lys Leu Gly Lys
        530                 535                 540

Gln Lys Tyr Phe Leu Val Gly Ala Gly Ala Ile Gly Cys Glu Leu Leu
```

1114

```
545                   550                   555                   560

Lys Asn Phe Ala Met Ile Gly Leu Gly Cys Gly Glu Gly Gly Glu Ile
                565                   570                   575

Ile Val Thr Asp Met Asp Thr Ile Glu Lys Ser Asn Leu Asn Arg Gln
            ·   580                   585                   590

Phe Leu Phe Arg Pro Trp Asp Val Thr Lys Leu Lys Ser Asp Thr Ala
                595                   600                   605

Ala Ala Ala Val Arg Gln Met Asn Pro His Ile Arg Val Thr Ser His
        610                   615                   620

Gln Asn Arg Val Gly Pro Asp Thr Glu Arg Ile Tyr Asp Asp Asp Phe
625                   630                   635                   640

Phe Gln Asn Leu Asp Gly Val Ala Asn Ala Leu Asp Asn Val Asp Ala
                645                   650                   655   ¹

Arg Met Tyr Met Asp Arg Arg Cys Val Tyr Tyr Arg Lys Pro Leu Leu
                660                   665                   670

Glu Ser Gly Thr Leu Gly Thr Lys Gly Asn Val Gln Val Val Ile Pro
                675                   680                   685

Phe Leu Thr Glu Ser Tyr Ser Ser Ser Gln Asp Pro Pro Glu Lys Ser
            690                   695                   700

Ile Pro Ile Cys Thr Leu Lys Asn Phe Pro Asn Ala Ile Glu His Thr
705                   710                   715                   720

Leu Gln Trp Ala Arg Asp Glu Phe Glu Gly Leu Phe Lys Gln Pro Ala
                725                   730                   735

Glu Asn Val Asn Gln Tyr Leu Thr Asp Pro Lys Phe Val Glu Arg Thr
            740·                  745                   750

Leu Arg Leu Ala Gly Thr Gln Pro Leu Glu Val Leu Glu Ala Val Gln
            755                   760                   765

Arg Ser Leu Val Leu Gln Arg Pro Gln Thr Trp Ala Asp Cys Val Thr
        770                   775                   780

Trp Ala Cys His His Trp His Thr Gln Tyr Ser Asn Asn Ile Arg Gln
785                   790                   795                   800

Leu Leu His Asn Phe Pro Pro Asp Gln Leu Thr Ser Ser Gly Ala Pro
                805                   810                   815

Phe Trp Ser Gly Pro Lys Arg Cys Pro His Pro Leu Thr Phe Asp Val
                820                   825                   830
```

1115

Asn Asn Pro Leu His Leu Asp Tyr Val Met Ala Ala Ala Asn Leu Phe
        835   840   845

Ala Gln Thr Tyr Gly Leu Thr Gly Ser Gln Asp Arg Ala Ala Val Ala
        850   855   860

Thr Phe Leu Gln Ser Val Gln Val Pro Glu Phe Thr Pro Lys Ser Gly
865   870   875   880

Val Lys Ile His Val Ser Asp Gln Glu Leu Gln Ser Ala Asn Ala Ser
                885   890   895

Val Asp Asp Ser Arg Leu Glu Glu Leu Lys Ala Thr Leu Pro Ser Pro
            900   905   910

Asp Lys Leu Pro Gly Phe Lys Met Tyr Pro Ile Asp Phe Glu Lys Asp
        915   920   925

Asp Asp Ser Asn Phe His Met Asp Phe Ile Val Ala Ala Ser Asn Leu
    930   935   940

Arg Ala Glu Asn Tyr Asp Ile Pro Ser Ala Asp Arg His Lys Ser Lys
945   950   955   960

Leu Ile Ala Gly Lys Ile Ile Pro Ala Ile Ala Thr Thr Thr Ala Ala
            965   970   975

Val Val Gly Leu Val Cys Leu Glu Leu Tyr Lys Val Val Gln Gly His
        980   985   990

Arg Gln Leu Asp Ser Tyr Lys Asn Gly Phe Leu Asn Leu Ala Leu Pro
        995   1000   1005

Phe Phe Gly Phe Ser Glu Pro Leu Ala Ala Pro Arg His Gln Tyr Tyr
    1010   1015   1020

Asn Gln Glu Trp Thr Leu Trp Asp Arg Phe Glu Val Gln Gly Leu Gln
1025   1030   1035   1040

Pro Asn Gly Glu Glu Met Thr Leu Lys Gln Phe Leu Asp Tyr Phe Lys
                1045   1050   1055

Thr Glu His Lys Leu Glu Ile Thr Met Leu Ser Gln Gly Val Ser Met
            1060   1065   1070

Leu Tyr Ser Phe Phe Met Pro Ala Ala Lys Leu Lys Glu Arg Leu Asp
        1075   1080   1085

Gln Pro Met Thr Glu Ile Val Ser Arg Val Ser Lys Arg Lys Leu Gly
    1090   1095   1100

1116

Arg His Val Arg Ala Leu Val Leu Glu Leu Cys Cys Asn Asp Glu Ser
1105   1110   1115   1120

Gly Glu Asp Val Glu Val Pro Tyr Val Arg Tyr Thr Ile Arg
               1125   1130

<210> 1571
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1571
Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
 1   5   10   15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
            20   25   30

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro
        35   40   45

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro
    50   55   60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu
 65   70   75   80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu
            85   90   95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser
            100   105   110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro
        115   120   125

<210> 1572
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1572
Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
 1   5   10   15

Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
            20   25   30

1117

Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro
        35   40   45

Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro
        50   55   60

Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu
65   70   75   80

Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu
                85   90   95

Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser
            100   105   110

Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro
        115   120   125

<210> 1573
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1573
Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val
 1   5   10   15

Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys
            20   25   30

Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu
        35   40   45

Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Xaa Glu
        50   55   60

Phe Phe Asn Pro Ser Thr Pro Val Asn Ala Arg Tyr Glu Phe Gly Pro
65   70   75   80

Ala Leu Phe Val Gly Xaa Asp Ser Ala Gly Leu Ala Val Leu Ser Gly

1118

```
                85                    90                    95
Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser
            100             105             110

Pro Gln Ala Leu Ser Ala Trp Thr Leu Cys Cys Cys
        115             120




<210> 1574
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1574
Asn Ser Ala Arg Asp Gln Ala Ser Gly Glu Ser Ile His His Arg Thr
 1               5                  10                  15

Ser Pro Ser Leu Pro Arg Thr Phe Leu Gly Gln Leu His Ser Gly Leu
            20                  25                  30

Leu His His Leu Pro Cys Asp His Ile Ser His His Val Pro Arg Ser
            35                  40                  45

Xaa Glu Arg Ser Ser Ala Ser Pro Ser Ser Leu Thr Leu Arg Gly Lys
    50                  55                  60

Val Thr Glu Thr Lys Ser Asp Glu Met Thr Ala Met Tyr Thr Ala Val
 65                  70                  75                  80

Lys Gly Arg Glu Gly Arg Asn Asp Thr Asn Gly Arg Glu Leu Leu Gly
                85                  90                  95

Asn




<210> 1575
<211> 128
<212> PRT
<213> Homo sapiens

<400> 1575
Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val
 1               5                  10                  15
```

1119

```
Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys
        20              25              30

Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu
        35              40              45

Cys Thr Leu Thr Ala Val Ser Trp Tyr Ala Thr Leu Val Thr Gln Glu
    50              55              60

Phe Phe Asn Pro Ser Thr Pro Val Asn Ala Arg Tyr Glu Phe Gly Pro
65              70              75              80

Ala Leu Phe Val Gly Trp Ala Ser Ala Gly Leu Ala Val Leu Gly Gly
            85              90              95

Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser
            100             105             110

Pro Gln Pro Tyr Arg Pro Gly Pro Ser Ala Ala Ala Arg Glu Tyr Val
    115             120             125
```

<210> 1576
<211> 100
<212> PRT
<213> Homo sapiens

<400> 1576
```
Met Val Arg Thr Arg Ala Leu Phe Tyr Ile Phe Phe Gln Leu Ser Leu
 1               5               10              15

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Tyr Leu
        20              25              30

Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser
        35              40              45

Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg
    50              55              60

Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg
65              70              75              80

Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His
            85              90              95

Thr His Thr Lys
```

<210> 1577
<211> 100
<212> PRT
<213> Homo sapiens

<400> 1577
Met Val Arg Thr Arg Ala Leu Phe Tyr Ile Phe Phe Gln Leu Ser Leu
 1   5   10   15

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Ile Tyr Leu
            20   25   30

Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser
            35   40   45

Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg
        50   55   60

Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg
 65   70   75   80

Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His
                85   90   95

Thr His Thr Lys
            100

<210> 1578
<211> 118
<212> PRT
<213> Homo sapiens

<400> 1578
Cys Arg Gly Asp Ile Gln Ile Arg Asp Lys Gly Glu Ala Met Leu Arg
 1   5   10   15

Lys Thr Leu Asp Arg Ala His Phe Thr Pro Pro Asn Arg Tyr Ile Trp
            20   25   30

Ile Tyr Pro Phe Ser Ala Ser Ser Phe Ser Thr Ile Lys Asn Val Thr
            35   40   45

Ile Leu Asn Ala His Lys Ser His Ser Ser Val Thr Phe Cys Glu Cys
        50   55   60

Ser Thr Ile Phe Ser Phe Ser Met Thr Phe Gln Pro Gln Ala Glu Lys

1121

Thr Val Tyr Ser Leu Thr Gln Arg Leu Lys Arg Ile Phe Tyr Tyr Phe
                85   90   95

Lys Tyr Tyr Thr Phe Arg Thr Ile Thr Cys Leu Arg Lys Leu Ser Gln
                100   105   110

Asn Val Asp Leu Val Lys
        115

<210> 1579
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1579
Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu
  1   5   10   15

Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val
                20   25   30

Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly
        35   40   45

```
Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr
    50                  55                  60

Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu
65                  70                  75                  80

Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu
                85                  90                  95

Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys
            100                 105                 110

Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe
        115                 120                 125

Gly Val Met Xaa Phe Leu Asn Ile Ala Met Xaa Ile Val Val Met Val
    130                 135                 140

Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu
145                 150                 155                 160

Glu Val Val Arg Asn Leu Arg Xaa Val Xaa Ser Leu Thr Phe Leu Val
            165                 170                 175

Gly Met Thr Trp Xaa
            180


<210> 1580
<211> 320
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1580
Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu
  1             5                  10                  15

Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val
            20                  25                  30

Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly
        35                  40                  45

Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr
    50                  55                  60
```

```
Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu
65              70              75              80

Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu
            85              90              95

Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys
        100             105             110

Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe
        115             120             125

Gly Val Met Phe Phe Leu Asn Ile Ala Met Phe Ile Val Val Met Val
        130             135             140

Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu
145             150             155             160

Glu Val Leu Arg Asn Leu Arg Xaa Val Val Ser Leu Thr Phe Leu Leu
            165             170             175

Gly Met Thr Trp Gly Phe Ala Phe Phe Ala Trp Gly Pro Leu Asn Ile
        180             185             190

Pro Phe Met Tyr Leu Phe Ser Ile Phe Asn Ser Leu Gln Gly Leu Phe
        195             200             205

Ile Phe Ile Phe His Cys Ala Met Lys Glu Asn Val Gln Lys Gln Trp
    210             215             220

Arg Arg His Leu Cys Cys Gly Arg Phe Arg Leu Ala Asp Asn Ser Asp
225             230             235             240

Trp Ser Lys Thr Ala Thr Asn Ile Ile Lys Lys Ser Ser Asp Asn Leu
            245             250             255

Gly Lys Ser Leu Ser Ser Ser Ser Ile Gly Ser Asn Ser Thr Tyr Leu
        260             265             270

Thr Ser Lys Ser Lys Ser Ser Ser Thr Thr Tyr Phe Lys Arg Asn Ser
        275             280             285

His Thr Asp Asn Val Ser Tyr Glu His Ser Phe Asn Lys Ser Gly Ser
    290             295             300

Leu Arg Gln Cys Phe His Gly Gln Val Leu Val Lys Thr Gly Pro Cys
305             310             315             320
```

1124

<210> 1581
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1581
Asn Ile Phe Leu Glu Trp Ile Leu Arg Arg Ile Leu Ser Leu Trp Arg
1   5   10   15

Gly Thr Phe Leu Met His Gly Arg Ala Gly Val Asn Arg Ile Ser Tyr
            20   25   30

Trp Pro Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser
        35   40   45

Glu Asp Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn
        50   55   60

Ser Arg Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met
65   70   75   80

Val Gln Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys
                85   90   95

Ile Thr Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys
            100   105   110

Lys Gln Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys Lys
        115   120   125

Lys Lys Thr
    130

<210> 1582
<211> 87
<212> PRT
<213> Homo sapiens

<400> 1582
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
1   5   10   15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
            20   25   30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
        35   40   45

1125

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys
    50   55   60

Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg
 65   70   75   80

Ser Met Ser Arg Ser Val Pro
                85

<210> 1583
<211> 87
<212> PRT
<213> Homo sapiens

<400> 1583
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1   5   10   15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
            20   25   30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
        35   40   45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys
    50   55   60

Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg
 65   70   75   80

Ser Met Ser Arg Ser Val Pro
                85

<210> 1584
<211> 113
<212> PRT
<213> Homo sapiens

<400> 1584
Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala
 1   5   10   15

Val His Pro Ala Pro Ser Thr Ala Pro Val Gln Asp Lys Cys Pro Val
            20   25   30

Asn Thr Trp Glu Ala Met Gln Ala Ser Ser Gln Gln Leu Leu Gln Thr
            35   40   45

```
Asp Pro Arg Pro Lys Pro Phe Leu Leu Pro Pro Leu Pro Pro Leu Leu
    50              55              60

Leu Ile Ser Ala Gly Thr Glu Val Ser Ser Leu Val Phe Gln Lys Ser
65              70              75              80

Pro Leu His Thr Gln Pro Glu Gly Ala Ile Lys Thr Ala Gly Gln Pro
                85              90              95

Thr Ser Val His Ser Lys Val Leu Ser Lys Gly Ser Leu Leu Leu Gly
            100             105             110

Glu


<210> 1585
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1585
Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu
  1           5               10              15

Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg
                20              25              30

Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu
        35              40              45

His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala
    50              55              60

Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys
65              70              75              80

Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu
            85              90


<210> 1586
<211> 133
<212> PRT
<213> Homo sapiens

<400> 1586
His Gln Ala Ile Lys Pro Gly Tyr Ser Ala Glu Asn Val Ala His Thr
  1           5               10              15
```

```
Asp His Thr Leu Gly Cys Val Thr Ile Val Trp Cys Thr Cys Trp Lys
            20                  25              30

Asn Ser Ser Met Leu Leu Gly Asp Ile Ile Ser Val Gly Asn Met Pro
            35                  40              45

Leu Thr Asp Phe Phe Phe Phe Leu Phe Ala Val Gly Leu Gly Gln Leu
        50              55                  60

Ile Gln Gln Ser Ile Phe Phe Phe Leu Ser Pro Asn Leu Asn Arg
65              70              75                  80

Ser Lys Met Cys Ser Gly Ile Pro Gly Asn Arg Cys Val Cys Lys Val
            85                  90                  95

Lys Asn Arg Leu Phe Arg Asn Ser Leu Phe Arg Tyr Leu His Pro Ala
            100             105             110

Ser His Val Lys Tyr Leu Ser Leu Lys Gly Leu Arg Cys Thr Ser Phe
            115             120                 125

Ile Ser Tyr Phe Ser
        130
```


<210> 1587
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1587
```
Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu
    1           5                   10                  15

Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg
            20                  25                  30

Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu
            35                  40                  45

His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala
        50              55                  60

Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys
65                  70                  75                  80

Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu
            85                  90
```

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<210> 1588
<211> 215
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1588
Met Glu Leu Ser Cys Pro Gly Ser Arg Cys Pro Val Gln Glu Gln Arg
 1               5                   10                  15

Ala Arg Trp Glu Arg Lys Arg Ala Cys Thr Ala Arg Glu Leu Leu Glu
            20                  25                  30

Thr Glu Arg Arg Tyr Gln Glu Gln Leu Gly Leu Val Ala Thr Tyr Phe
            35                  40                  45

Leu Gly Ile Leu Lys Ala Lys Gly Thr Leu Arg Pro Pro Glu Arg Gln
    50                  55                  60

Ala Leu Phe Gly Ser Trp Glu Leu Ile Tyr Gly Ala Ser Gln Glu Leu
 65                 70                  75                  80

Leu Pro Tyr Leu Glu Gly Gly Cys Trp Gly Gln Gly Leu Glu Gly Phe
            85                  90                  95

Cys Arg His Leu Glu Leu Tyr Asn Gln Phe Ala Ala Asn Ser Glu Arg
            100                 105                 110

Ser Gln Thr Xaa Leu Gln Glu Gln Leu Lys Lys Asn Lys Gly Phe Arg
            115                 120                 125

Lys Phe Val Arg Leu Gln Glu Gly Arg Pro Glu Phe Gly Gly Leu Gln
    130                 135                 140

Leu Gln Asp Leu Leu Pro Leu Pro Leu Gln Arg Leu Gln Gln Tyr Glu
145                 150                 155                 160

Asn Leu Val Val Ala Leu Ala Glu Asn Thr Gly Pro Asn Ser Pro Asp
                165                 170                 175

His Gln Gln Leu Thr Arg Arg Phe Leu Leu Leu Gly Asn Ala Gly Trp
            180                 185                 190

Arg Leu Pro Leu Leu Tyr Ser Phe Leu Ile Leu Thr Ser Asn Asn Val
            195                 200                 205

Trp Tyr Asp Pro Ile Phe His
    210                 215
```

1129

<210> 1589
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1589
Glu Ile Leu Leu Lys Lys Lys Asn Gln Glu Thr Lys Ser Asn Pro Thr
 1   5   10   15

Lys Pro Gln Met Asn Gln Pro Leu Thr Gln Met Arg Gly Phe Gly Thr
                20   25   30

Asp Lys Leu Cys Ala Val Ser Met Ala Arg His Leu Ser Arg Leu Gln
            35   40   45

Leu Cys Lys Cys Gly Tyr Phe Tyr Val Val Tyr Ser Phe Tyr His Leu
        50   55   60

Phe Phe His Trp Ile
 65

<210> 1590
<211> 211
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1590
Met Ser Gly Met Thr Leu Ser Ser Thr Asp Met Tyr Thr Val Ser Leu
 1   5   10   15

Leu Leu Cys Leu Xaa Phe Lys Lys Ser Asp Pro Asp Pro Gly Pro Phe
                20   25   30

Gln Asn Asn Leu Phe His Asn His Gly Thr Gln Ser Gln Ser Cys Met
            35   40   45

Gly Ser Lys Val Gly Asp Val Ile Pro Gly Ala Ala Arg Leu Ile Ser

1130

```
              50                    55                    60
     Glu Thr Ala Gln Arg Val His Thr Ile Gly Gln Lys Gln Lys Asn Asp
      65                  70                  75                  80

     Gln His Leu Arg Arg Val Gln Ala Leu Leu Ser Gly Arg Gln Ala Lys
                      85                  90                  95

     Gly Leu Thr Ser Gly Arg Trp Xaa Leu Arg Gln Gly Trp Leu Leu Val
                     100                 105                 110

     Val Pro Pro His Gly Glu Pro Arg Pro Arg Met Phe Phe Leu Phe Thr
                 115                 120                 125

     Asp Val Leu Leu Met Ala Lys Pro Arg Pro Leu His Leu Leu Arg
             130                 135                 140

     Ser Gly Thr Phe Ala Cys Lys Ala Leu Tyr Pro Met Ala Gln Cys His
     145                 150                 155                 160

     Leu Ser Arg Val Phe Gly His Ser Gly Gly Pro Cys Gly Gly Leu Leu
                     165                 170                 175

     Ser Leu Ser Phe Pro Arg Glu Lys Leu Leu Leu Met Ser Thr Asp Gln
                     180                 185                 190

     Glu Glu Leu Ser Arg Trp Tyr His Ser Leu Thr Trp Ala Ile Ser Ser
                 195                 200                 205

     Gln Lys Asn
         210




<210> 1591
<211> 349
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (334)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (344)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (348)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1591
Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro
 1   5   10   15

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
               20   25   30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
           35   40   45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
       50   55   60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
 65   70   75   80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys
               85   90   95

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu
               100   105   110

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp
           115   120   125

Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr
       130   135   140

Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His
145   150   155   160

1132

Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr
                    165   170   175

Thr Pro Gly Phe Ser His Xaa Cys Ser Met Ser Gln Asn Phe Xaa Xaa
              180   185   190

Phe Val Ser His Ile Thr Ala Gln Val Ala Ala Ala Ser Ala Gly Asn
          195   200   205

Gln Ala Gly Gly Thr Glu Trp Pro Ala Gly Pro Ser Glu Ala Leu Cys
      210   215   220

Pro Ala Gln Arg Trp Pro Ala Pro Arg Ser Arg Cys Leu His Arg Pro
225   230   235   240

Asp Ala Phe Tyr Pro Phe Leu Asn Ala Leu Gly Phe Tyr Val Arg Cys
              245   250   255

Phe Leu Val Ala Glu Thr Glu Arg Trp Trp Ser Arg Ala Ser Pro Ser
              260   265   270

Ser Pro Arg Leu Leu Gly Gly Gly Gly His Thr Leu Met Gly Thr Gly
          275   280   285

Glu Ala Arg Arg Asp Ser Glu Glu Arg Ala Ala Phe Arg Leu Gly Leu
      290   295   300

Pro Val Thr Ser Gln Ser Pro Gly Pro Ala Ser His Arg Pro Gln His
305   310   315   320

Pro Ser Met Gln Leu Pro Val Pro Pro Gly Gln Pro Pro Xaa Leu Asp
              325   330   335

Val Cys Val Leu Phe Gly Gly Xaa Xaa Phe Ile Xaa Ile
              340   345

<210> 1592
<211> 144
<212> PRT
<213> Homo sapiens

<400> 1592
Ala Pro Phe Leu Pro Lys Pro Glu Gln Arg Val Met Arg Ala Pro Gln
  1   5   10   15

Glu Lys Arg Pro Gly Pro Ala Gly Gly Thr Thr Cys Gly Gln Pro Ser
              20   25   30

Cys Pro Gln Ala Phe Arg Gln Ala Leu Lys Arg Thr Glu Leu Pro Arg

```
              35                    40                    45

Ser Ala Gly Gln Trp Arg Leu Ser Pro Pro Gln Pro Ser Arg Pro Ala
    50              55              60

Thr Cys Val Cys Leu Thr Arg Thr His Gln Gly Phe Arg Gly Trp Glu
65              70              75              80

Leu Asn His Pro His Leu Arg Val Ile Phe Pro Ser Pro Leu Pro Ser
                85              90              95

Pro Pro Arg Ala Leu Pro Gly Ala Gly Lys Lys Lys Ser Lys Lys Lys
        100             105             110

Arg Lys Lys Lys Lys Arg Asn Lys Pro Pro Leu His Ile Met Glu Arg
        115             120             125

Lys Tyr Phe Cys Arg Phe Leu Phe Phe Tyr Asn Tyr Ala Trp Lys Lys
    130             135             140
```

<210> 1593
<211> 497
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1593

```
Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro
  1           5              10              15

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
            20              25              30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
        35              40              45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
    50              55              60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
65              70              75              80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys
```

1134

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu
            100   105   110

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp
        115   120   125

Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr
    130   135   140

Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His
145   150   155   160

Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr
            165   170   175

Thr Pro Gly Phe Ser His Xaa Cys Ser Met Ser Gln Asn Phe Asp Met
            180   185   190

Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val
            195   200   205

Tyr Lys Leu Ser Gly Pro Asp Asp Asp Pro Leu His Lys Gln Pro Arg
    210   215   220

Phe Trp Ala Ser Met Met Glu Ala Ala Ser Cys Pro Pro Asp Tyr Val
225   230   235   240

Pro Pro Glu Ile Phe His Phe His Thr Arg Ser Asp Val Arg Leu Tyr
            245   250   255

Gly Met Ile Tyr Lys Pro His Ala Leu Gln Pro Gly Lys Lys His Pro
            260   265   270

Thr Val Leu Phe Val Tyr Gly Gly Pro Gln Val Gln Leu Val Asn Asn
        275   280   285

Ser Phe Lys Gly Ile Lys Tyr Leu Arg Leu Asn Thr Leu Ala Ser Leu
    290   295   300

Gly Tyr Ala Val Val Val Ile Asp Gly Arg Gly Ser Cys Gln Arg Gly
305   310   315   320

Leu Arg Phe Glu Gly Ala Leu Lys Asn Gln Met Gly Gln Val Glu Ile
            325   330   335

Glu Asp Gln Val Glu Gly Leu Gln Phe Val Ala Glu Lys Tyr Gly Phe
            340   345   350

Ile Asp Leu Ser Arg Val Ala Ile His Gly Trp Ser Tyr Gly Gly Phe
    355   360   365

1135

Leu Ser Leu Met Gly Leu Ile His Lys Pro Gln Val Phe Lys Val Ala
    370   375   380

Ile Ala Gly Ala Pro Val Thr Val Trp Met Ala Tyr Asp Thr Gly Tyr
385   390   395   400

Thr Glu Arg Tyr Met Asp Val Pro Glu Asn Asn Gln His Gly Tyr Glu
            405   410   415

Ala Gly Ser Val Ala Leu His Val Glu Lys Leu Pro Asn Glu Pro Asn
            420   425   430

Arg Leu Leu Ile Leu His Gly Phe Leu Asp Glu Asn Val His Phe Phe
        435   440   445

His Thr Asn Phe Leu Val Ser Gln Leu Ile Arg Ala Gly Lys Pro Tyr
    450   455   460

Gln Leu Gln Ile Tyr Pro Asn Glu Arg His Ser Ile Arg Cys Pro Glu
465 ·   470   475   480

Ser Gly Glu His Tyr Glu Val Thr Leu Leu His Phe Leu Gln Glu Tyr
            485   490   495

Leu

<400> 1594
Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro
 1   5   10   15

Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala
            20   25   30

Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu
        35   40   45

Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe
    50   55   60

Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu
65   70   75   80

Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys

Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu
        100   105   110

Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp
        115   120   125

Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr
    130   135   140

Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His
145   150   155   160

Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr
            165   170   175

Thr Pro Gly Phe Ser His Ser Cys Ser Met Ser Gln Asn Phe Asp Met
            180   185   190

Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val
        195   200   205

Tyr Lys Leu Ser Gly Pro Asp Asp Asp Pro Leu His Lys Gln Pro Arg
    210   215   220

Phe Trp Ala Ser Met Met Glu Ala Ala Ser Cys Pro Pro Asp Tyr Val
225   230   235   240

Pro Pro Glu Ile Phe His Phe His Thr Arg Ser Asp Val Arg Leu Tyr
            245   250   255

Gly Met Ile Tyr Lys Pro His Ala Leu Gln Pro Gly Lys Lys His Pro
            260   265   270

Thr Val Leu Phe Val Tyr Gly Gly Pro Gln Val Gln Leu Val Asn Asn
        275   280   285

Ser Phe Lys Gly Ile Lys Tyr Leu Arg Leu Asn Thr Leu Ala Ser Leu
    290   295   300

Gly Tyr Ala Val Val Val Ile Asp Gly Arg Gly Ser Cys Gln Arg Gly
305   310   315   320

Leu Arg Phe Glu Gly Ala Leu Lys Asn Gln Met Gly Gln Val Glu Ile
            325   330   335

Glu Asp Gln Val Glu Gly Leu Gln Phe Val Ala Glu Lys Tyr Gly Phe
            340   345   350

Ile Asp Leu Ser Arg Val Ala Ile His Gly Trp Ser Tyr Gly Gly Phe
    355   360   365

1137

Leu Ser Leu Met Gly Leu Ile His Lys Pro Gln Val Phe Lys Val Ala
    370   375   380

Ile Ala Gly Ala Pro Val Thr Val Trp Met Ala Tyr Asp Thr Gly Tyr
385   390   395   400

Thr Glu Arg Tyr Met Asp Val Pro Glu Asn Asn Gln His Gly Tyr Glu
            405   410   415

Ala Gly Ser Val Ala Leu His Val Glu Lys Leu Pro Asn Glu Pro Asn
            420   425   430

Arg Leu Leu Ile Leu His Gly Phe Leu Asp Glu Asn Val His Phe Phe
    435   440   445

His Thr Asn Phe Leu Val Ser Gln'Leu Ile Arg Ala Gly Lys Pro Tyr
    450   455   460

Gln Leu Gln Ile Tyr Pro Asn Glu Arg His Ser Ile Arg Cys Pro Glu
465 ·   470   475   480

Ser Gly Glu His Tyr Glu Val Thr Leu Leu His Phe Leu Gln Glu Tyr
            485   490   495

Leu

<210> 1595
<211> 180
<212> PRT
<213> Homo sapiens

<400> 1595
Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile .Ile
1   5   10   15

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu
            20   25   30

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn
            35   40   45

Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser
    50   55   60

Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly
65   70   75   80

Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Ser Pro

(see above)
1138

85   90   95

Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His
            100   105   110

Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu
      ·   115   120   125

Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Arg Leu
      130   135   140   ·

Ser Ala Ser Phe Asn Ala Ser Pro Gly Ala Ile Ser Ala Lys Thr Lys
145   150   155   160

Phe Ser Arg Lys Gln Ile Phe Gln Glu Leu Gln Ile Cys Pro Ser Arg
                165   170   175

His Gly Gln Ile
            180

<210> 1596
<211> 240
<212> PRT
<213> Homo sapiens

<400> 1596
Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile
  1   5   10   15

Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu
            20   25   30

Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn
            35   40   45

Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser
      50   55   60

Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly
65   70   75   80

Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Ser Pro
                85   90   95

Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His
            100   105   110

Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu
            115   120   125

1139

```
Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Val Ser
    130             135             140
```

```
Gln Leu Leu Ser Met Leu His Gln Gly Gln Tyr Gln Pro Arg Pro Ser
145             150             155             160
```

```
Phe Arg Gly Asn Lys Tyr Ser Arg Ser Tyr Arg Tyr Ala Leu Gln Asp
            165             170             175
```

```
Met Asp Lys Phe Ser Leu Lys Asp Ser Gly Arg Gly Asp Ser Glu Ala
            180             185             190
```

```
Gly Asp Ser Asp Tyr Asp Leu Gly Arg Asp Ser Pro Ile Asp Arg Leu
            195             200             205
```

```
Leu Gly Glu Gly Phe Ser Asp Leu Phe Leu Thr Asp Gly Arg Ile Pro
    210             215             220
```

```
Ala Ser Tyr Glu Thr Leu His Gly Gly Val Gln Gly Pro Gly Thr Leu
225             230             235.            240
```

<210> 1597
<211> 447
<212> PRT
<213> Homo sapiens

<400> 1597
```
Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile
  1             5             10             15
```

```
Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu
            20             25             30
```

```
Phe Ala Thr Arg Cys Asn Arg Glu Lys Lys Asp Thr Arg Ser Tyr Asn
            35             40             45
```

```
Cys Arg Val Ala Glu Ser Thr Tyr Gln His His Pro Lys Arg Pro Ser
    50             55             60
```

```
Arg Gln Ile His Lys Gly Asp Ile Thr Leu Val Pro Thr Ile Asn Gly
 65             70             75             80
```

```
Thr Leu Pro Ile Arg Ser His His Arg Ser Ser Pro Ser Ser Ser Pro
            85             90             95
```

```
Thr Leu Glu Arg Gly Gln Met Gly Ser Arg Gln Ser His Asn Ser His
            100            105            110
```

```
Gln Ser Leu Asn Ser Leu Val Thr Ile Ser Ser Asn His Val Pro Glu
        115                 120                 125

Asn Phe Ser Leu Glu Leu Thr His Ala Thr Pro Ala Val Glu Val Ser
        130                 135                 140

Gln Leu Leu Ser Met Leu His Gln Gly Gln Tyr Gln Pro Arg Pro Ser
145                 150                 155                 160

Phe Arg Gly Asn Lys Tyr Ser Arg Ser Tyr Arg Tyr Ala Leu Gln Asp
                165                 170                 175

Met Asp Lys Phe Ser Leu Lys Asp Ser Gly Arg Gly Asp Ser Glu Ala
                180                 185                 190

Gly Asp Ser Asp Tyr Asp Leu Gly Arg Asp Ser Pro Ile Asp Arg Leu
                195                 200                 205

Leu Gly Glu Gly Phe Ser Asp Leu Phe Leu Thr Asp Gly Arg Ile Pro
        210                 215                 220

Ala Ala Met Arg Leu Cys Thr Glu Glu Cys Arg Val Leu Gly His Ser
225                 230                 235                 240

Asp Gln Cys Trp Met Pro Pro Leu Pro Ser Pro Ser Ser Asp Tyr Arg
                245                 250                 255

Ser Asn Met Phe Ile Pro Gly Glu Glu Phe Pro Thr Gln Pro Gln Gln
                260                 265                 270

Gln His Pro His Gln Ser Leu Glu Asp Asp Ala Gln Pro Ala Asp Ser
        275                 280                 285

Gly Glu Lys Lys Lys Ser Phe Ser Thr Phe Gly Lys Asp Ser Pro Asn
        290                 295                 300

Asp Glu Asp Thr Gly Asp Thr Ser Thr Ser Ser Leu Leu Ser Glu Met
305                 310                 315                 320

Ser Ser Val Phe Gln Arg Leu Leu Pro Pro Ser Leu Asp Thr Tyr Ser
                325                 330                 335

Glu Cys Ser Glu Val Asp Arg Ser Asn Ser Leu Glu Arg Arg Lys Gly
                340                 345                 350

Pro Leu Pro Ala Lys Thr Val Gly Tyr Pro Gln Gly Val Ala Ala Trp
        355                 360                 365

Ala Ala Ser Thr His Phe Gln Asn Pro Thr Thr Asn Cys Gly Pro Pro
        370                 375                 380
```

```
Leu Gly Thr His Ser Ser Val Gln Pro Ser Ser Lys Trp Leu Pro Ala
385             390             395                 400

Met Glu Glu Ile Pro Glu Asn Tyr Glu Glu Asp Asp Phe Asp Asn Val
            405             410                 415

Leu Asn His Leu Asn Asp Gly Lys His Glu Leu Met Asp Ala Ser Glu
            420             425             430

Leu Val Ala Glu Ile Asn Lys Leu Leu Gln Asp Val Arg Gln Ser
        435             440             445
```

<210> 1598
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1598
```
Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly
  1             5               10              15

Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg
            20              25              30

Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Xaa Leu Gly
            35              40              45

Ala Pro Arg Pro Pro Gly Gly Gln Asp Pro Ser His Gln Arg Leu Gly
    50              55              60

Arg Gly Glu Leu Pro Leu Val Arg Gln His His Arg Asp Leu His His
 65              70              75              80

Arg Gly Pro His Gln Glu Gly Leu Gln Val His His Gln His Glu
            85              90              95
```

<210> 1599
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1599
Xaa Pro Ser Trp Trp Gly Pro Arg Trp Cys Arg Ser Ser Cys Gly Val
 1   5   10   15

Ala Arg Thr Arg Val Val His Pro Val Arg Val Ala Asp Gly Leu Asp
            20   25   30

Leu Ala Leu Leu Glu Val Gly Glu Leu Pro Ala Gly His Ala Leu Leu
            35   40   45

Ala Val Leu Val Val Glu Leu His Val Ala Ala Arg Leu Asp Pro Ala
    50   55   60

Asn Tyr Pro Ser Leu Leu Leu Gly Asp Gly Arg His Asp His Leu Gly
 65   70   75   80

Arg Gly Pro Glu Val Gly Cys Pro Val Ala Glu His His Ala Gly Gly
            85   90   95

Leu Ile Asp Ala Ser Gly Asp Gly Val Asp Gly Gly Phe His Ile Asn
            100   105   110

His Arg Asp Pro Phe Pro Glu Asp Ser Gly Phe Ala Ser Asp Ala Leu
            115   120   125

Asn Thr Ala His Gly Ile Gln Glu Arg Ser Asp Leu Gln Gly Arg Pro
    130   135   140

Ala Val Thr Glu Lys Thr Arg His
145   150

<210> 1600
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1600
Met Arg Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
 1   5   10   15

Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
            20   25   30

Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
            35   40   45

Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met

```
        50                  55                  60
Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
 65                  70                  75                  80

Ser Arg



<210> 1601
<211> 306
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (219)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1601
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1   5   10   15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
                20   25   30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
            35   40   45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
        50   55   60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65   70   75   80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
                85   90   95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
            100   105   110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
            115   120   125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
        130   135   140

Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly
145   150   155   160

Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
                165   170   175

Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg
                180   185   190

Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa
            195   200   205

Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser
        210   215   220

Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro

1145

Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys
              245   250   255

Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln
              260   265   270

Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro
          275   280   285

Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys
      290   295   300

Glu Lys
305

<210> 1602
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1602
Met Glu Asp Arg Leu Leu Leu Ile Leu Val Phe Pro Leu Leu Trp Phe
  1   5   10   15

Pro Val Ala Val Phe Gln Leu Val Leu Leu Pro Phe Leu Leu Ile
              20   25   30

His Ser Leu Asn Cys Leu Glu Trp Arg His Leu Phe Ser Ala Tyr Arg
          35   40   45

Val His Ile Leu Ala Trp Leu Ala Tyr Pro Cys Phe Cys Val Ser Leu
      50   55   60

Arg Val Arg His Cys Ile Glu Leu Phe Ile Gln Ile Val Leu Ser Leu
 65   70   75   80

Pro Gln Cys Cys Gly Ile Gly Gly Val Pro Ile Leu
              85   90

<210> 1603
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1603
Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu
 1   5   10   15

Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr
            20   25   30

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro
            35   40   45

Gly His Trp Val Glu Glu Thr Val Leu Gly Xaa Thr Arg Arg Glu Gly
        50   55   60

Pro Gly Leu Phe Pro
 65

<210> 1604
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1604
Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu
 1   5   10   15

Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr
            20   25   30

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro
            35   40   45

Gly His Trp Val Glu Glu Thr Val Leu Gly Arg Ser Arg Arg Glu Gly
        50   55   60

Pro Gly Leu Phe Pro
 65

<210> 1605
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)

1147

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1605
Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
 1   5   10   15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
            20   25   30

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
            35   40   45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
        50   55   60

Asp Arg Xaa Arg Gln Gly Phe Ser Thr Xaa Tyr Lys
 65   70   75

<210> 1606
<211> 201
<212> PRT
<213> Homo sapiens

<400> 1606
Met Val Ala Met Val Glu Val Gln Leu Asp Ala Asp His Asp Tyr Pro
 1   5   10   15

Pro Gly Leu Leu Ile Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala
            20   25   30

Val His Leu Phe Ala Leu Met Ile Ser Thr Cys Ile Leu Pro Asn Ile
            35   40   45

Glu Ala Val Ser Asn Val His Asn Leu Asn Ser Val Lys Glu Ser Pro
        50   55   60

His Glu Arg Met His Arg His Ile Glu Leu Ala Trp Ala Phe Ser Thr
 65   70   75   80

Val Ile Gly Thr Leu Leu Phe Leu Ala Glu Val Val Leu Leu Cys Trp
                85   90   95

Val Lys Phe Leu Pro Leu Lys Lys Gln Pro Gly Gln Pro Arg Pro Thr
            100   105   110

1148

```
Ser Lys Pro Pro Ala Ser Gly Ala Ala Ala Asn Val Ser Thr Ser Gly
        115             120             125

Ile Thr Pro Gly Gln Ala Ala Ala Ile Ala Ser Thr Thr Ile Met Val
        130             135             140

Pro Phe Gly Leu Ile Phe Ile Val Phe Ala Val His Phe Tyr Arg Ser
145             150             155             160

Leu Val Ser His Lys Thr Asp Arg Gln Phe Gln Glu Leu Asn Glu Leu
                165             170             175

Ala Glu Phe Ala Arg Leu Gln Asp Gln Leu Asp His Arg Gly Asp His
            180             185             190

Pro Leu Thr Pro Gly Ser His Tyr Ala
        195             200
```

<210> 1607
<211> 23
<212> PRT
<213> Homo sapiens

<400> 1607
```
Met Ser Ala Cys Thr Ala Thr Ser Ser Trp Pro Gly Pro Ser Pro Pro
 1           5               10              15

Ser Ser Ala Arg Cys Ser Ser
            20
```

<210> 1608
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1608
```
Tyr Phe Ser Val Gly Gln Arg Gln Cys Trp Ile Ser Phe Thr Leu Thr
 1           5               10              15
```

```
Ala Gln Asn Ser Ile Cys Cys Leu Pro Cys Asn Leu Arg Thr Asn Thr
        20              25                  30

His Leu Leu Tyr Asn Pro Arg Arg Gly Asp Ile Lys Leu Thr Gln Leu
        35          .   40                  45

Ala Met Leu Leu Ala Glu Ile Ser Ser Val Ala His Gln Lys Asp Gly
    50              55                  60                       .

Ser Phe Cys Pro Ile Val Met Cys Gly Asp Phe Asn Ser Val Pro Gly
65              70              75                          80

Ser Pro Leu Tyr Ser Phe Ile Lys Glu Gly Lys Leu Asn Tyr Glu Gly
            85              90                  95

Leu Pro Ile Gly Lys Val Ser Gly Gln Glu Gln Ser Ser Arg Gly Gln
            100             105                 110              .

Arg Ile Leu Ser Ile Pro Ile Trp Pro Pro Asn Leu Gly Ile Ser Gln
        115             120                 125              '

Asn Cys Val Tyr Glu Val Gln Gln Val Pro Lys Val Glu Lys Thr Asp
    130             135                 140

Ser Asp Leu Thr Gln Thr Gln Leu Lys Gln Thr Glu Val Leu Val Thr
145             150                 155                     160

Ala Glu Lys Leu Ser Ser Asn Leu Gln His His Phe Ser Leu Ser Ser
            165                 170                 175

Val Tyr Ser His Tyr Phe Pro Asp Thr Gly Ile Pro Glu Val Thr Thr
            180             185                 190

Cys His Ser Arg Ser Ala Ile Thr Val Asp Tyr Ile Xaa Leu Leu Cys
    195                 200                 205

Arg Lys Gly Xaa Cys Cys Trp Ala Pro Arg Ser
    210             215


<210> 1609
<211> 267
<212> PRT
<213> Homo sapiens

<400> 1609
Met Leu Ile Ala Val Gly Ile His Leu Leu Leu Met Phe Glu Val
    1           5                   10                  15

Leu Val Cys Asp Arg Val Glu Arg Gly Thr His Phe Trp Leu Leu Val
```

1150

```
                20                          25                          30

Phe Met Pro Leu Phe Phe Val Ser Pro Val Ser Val Ala Ala Cys Val
        35                      40                      45

Trp Gly Phe Arg His Asp Arg Ser Leu Glu Leu Glu Ile Leu Cys Ser
        50                      55                      60

Val Asn Ile Leu Gln Phe Ile Phe Ile Ala Leu Lys Leu Asp Arg Ile
65                      70                      75                      80

Ile His Trp Pro Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met
                85                      90                      95

Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu
                100                     105                     110

Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val
            115                     120                     125

Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe
        130                     135                     140

Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr
145                     150                     155                     160

Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala
                165                     170                     175

Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg
            180                     185                     190

Arg Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu
            195                     200                     205

Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp Ala
    210                     215                     220

Glu Glu Thr Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe Gly
225                     230                     235                     240

Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Pro
            245                     250                     255

Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp
            260                     265


<210> 1610
<211> 123
<212> PRT


                              1151
```

<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids ·

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1610
Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser
 1   5   10   15

Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val
             20   25   30

Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro
         35   40   45

Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly
     50   55   60

His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln Glu Ala
65   70   75   80

Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Xaa Xaa Glu Glu Phe
             85   90   95

Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro Xaa Arg Leu Leu Gln
         100   105   110

Ala His His Asn Xaa Thr Tyr Lys Gln Xaa Tyr
         115   120

1152

<210> 1611
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1611
Pro Gly Leu Arg Lys Asn Arg Pro Ser Val Pro Arg Arg Ser Ser Pro
 1   5   10   15

Gly Arg Ile Ser Gly Leu Ser Ser Val Ala Trp Asn Pro Asp His Ser
            20   25   30

Ile Ser Val Phe Xaa Leu Ala Glu Leu Thr Ser Arg Ala Gln Leu Ala
            35   40   45

Val Gly Val Ser
        50

<210> 1612
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1612
Met Phe Arg Arg Leu Ala Ser Val Ala Ser Lys Leu Lys Glu Phe Ile
 1   5   10   15

Gly Asn Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu
            20   25   30

Gly Ser Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe
            35   40   45

Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe
        50   55   60

Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr
 65   70   75   80

Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln
                85   90   95

Glu Ala Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu

1153

Glu Phe Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro
        115   120   125

<210> 1613
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1613
Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser
1   5   10   15

Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val
                20   25   30

Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro
            35   40   45

Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly
        50   55   60

His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln Glu Ala
65   70   75   80

Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu Glu Phe
                85   90   95

Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro
                100   105

<210> 1614
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1614
Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
1   5   10   15

Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
                20   25   30

Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
            35   40   45

Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu

1154

```
        50                    55                    60
Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
 65                     70                    75                    80

Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr
                    85                    90                    95

Pro Phe Ile Ser Arg Thr Lys Ile Ala Gln Leu Lys Ser Gly Arg Asp
            100                   105                   110

Ser Thr Val
        115


<210> 1615
<211> 182
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<400> 1615
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Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys
 1   5   10   15

Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu
            20   25   30

Gly Phe Leu Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala
        35   40   45

Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu
    50   55   60

Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr
65   70   75   80

Val Val Phe His Gly Met Leu Xaa Ala Phe Ile Tyr Leu Ala Leu Gln
            85   90   95

Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn
            100   105   110

Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr
        115   120   125

Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu
    130   135   140

Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile
145   150   155   160

Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu
            165   170   175

Gly Leu Glu Lys Phe His
            180

<210> 1616
<211> 83
<212> PRT
<213> Homo sapiens

<220>
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<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 1616
Ile Trp Ala Ile Asp Val Phe Ala Phe Cys Leu Ile Phe Phe Tyr Lys
 1               5                   10                  15

Xaa Xaa Val Arg Gly Ile His Leu Phe Ile Cys Cys Thr Asp Leu Ile
            20                  25                  30

Met Ile Leu Met Phe Glu Arg Leu His Leu Phe Ala Phe Thr Ile Cys
            35                  40                  45

Gly Val Lys Tyr Ile Phe Cys Ser Gln Tyr Met Lys Ile Trp Ser Asn
        50                  55                  60

Leu Asn Ser Lys Gln Thr Phe Cys Gly Cys Leu Phe Leu Tyr Trp Gln
 65                 70                  75                  80

Ser Ile Asn


<210> 1617
<211> 182
<212> PRT
<213> Homo sapiens

<220>
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<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1617
Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys
 1   5   10   15

Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu
                20   25   30

Gly Phe Leu Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala
         35   40   45

Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu
     50   55   60

Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr
 65   70   75   80

Val Val Phe His Gly Met Leu Phe Ala Phe Ile Tyr Leu Ala Leu Gln
             85   90   95

Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn
             100   105   110

Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr
         115   120   125

Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu
     130   135   140

Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile
145   150   155   160

Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu
                 165   170   175

Gly Leu Glu Lys Phe His
             180

<210> 1618
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1618
Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
 1   5   10   15

Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe
                20   25   30

Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu

1158

35   40   45

Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser
     50   55   60

Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys
 65   70   75   80

Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp
                     85   90   95

<210> 1619
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1619
Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
 1   5   10   15

Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe
                20   25   30

Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu
             35   40   45

Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser
     50   55   60

Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys
 65   70   75   80

Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp
                     85   90   95

<210> 1620
<211> 706
<212> PRT
<213> Homo sapiens

<400> 1620
Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile
 1   5   10   15

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser
                20   25   30

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly
    50   55   60

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser
65   70   75   80

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile
                85   90   95

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala
            100   105   110

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro
        115   120   125

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val
    130   135   140

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln
145   150   155   160

Leu Gln Ile Ala Lys Lys Leu Ser Lys Gly Ile Arg Pro Val Leu Gly
            165   170   175

Gln Pro Glu Glu Val Gln Phe Arg Arg Leu Gln Ala Leu Met Met Glu
        180   185   190

Cys Trp Asp Thr Lys Pro Glu Lys Arg Pro Leu Ala Leu Ser Val Val
        195   200   205

Ser Gln Met Lys Asp Pro Thr Phe Ala Thr Phe Met Tyr Glu Leu Cys
    210   215   220

Cys Gly Lys Gln Thr Ala Phe Phe Ser Ser Gln Gly Gln Glu Tyr Thr
225   230   235   240

Val Val Phe Trp Asp Gly Lys Glu Glu Ser Arg Asn Tyr Thr Val Val
            245   250   255

Asn Thr Glu Lys Gly Leu Met Glu Val Gln Arg Met Cys Cys Pro Gly
            260   265   270

Met Lys Val Ser Cys Gln Leu Gln Val Gln Arg Ser Leu Trp Thr Ala
        275   280   285

Thr Glu Asp Gln Lys Ile Tyr Ile Tyr Thr Leu Lys Gly Met Cys Pro
    290   295   300

Leu Asn Thr Pro Gln Gln Ala Leu Asp Thr Pro Ala Val Val Thr Cys
305   310   315   320

Phe Leu Ala Val Pro Val Ile Lys Lys Asn Ser Tyr Leu Val Leu Ala
                325   330   335

Gly Leu Ala Asp Gly Leu Val Ala Val Phe Pro Val Val Arg Gly Thr
                340   345   350

Pro Lys Asp Ser Cys Ser Tyr Leu Cys Ser His Thr Ala Asn Arg Ser
                355   360   365

Lys Phe Ser Ile Ala Asp Glu Asp Ala Arg Gln Asn Pro Tyr Pro Val
        370   375   380.

Lys Ala Met Glu Val Val Asn Ser Gly Ser Glu Val Trp Tyr Ser Asn
385   390   395   400

Gly Pro Gly Leu Leu Val Ile Asp Cys Ala Ser Leu Glu Ile Cys Arg
                405   410   415

Arg Leu Glu Pro Tyr Met Ala Pro Ser Met Val Thr Ser Val Val Cys
                420   425   430

Ser Ser Glu Gly Arg Gly Glu Glu Val Val Trp Cys Leu Asp Asp Lys
        435   440   445

Ala Asn Ser Leu Val Met Tyr His Ser Thr Thr Tyr Gln Leu Cys Ala
        450   455   460

Arg Tyr Phe Cys Gly Val Pro Ser Pro Leu Arg Asp Met Phe Pro Val
465   470   475   480

Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro
                485   490   495

Lys Val Pro Glu Gly Asp Ser Ile Ala Asp Val Ser Ile Met Tyr Ser
                500   505   510

Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp
        515   520   525

Tyr Cys Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala
        530   535   540

Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Ser Val
545   550   555   560

Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly
                565   570   575

Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu
                580   585   590

1161

Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp
        595   600   605

Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu
        610   615   620

Glu Lys Asp Ser Glu Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys
625   630   635   640

Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val
                645   650   655

Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp
                660   665   670

Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe
        675   680   685

Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys
        690   695   700

Arg Arg
705

<210> 1621
<211> 706
<212> PRT
<213> Homo sapiens

<400> 1621
Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile
  1   5   10   15

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser
                20   25   30

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro
            35   40   45

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly
        50   55   60

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser
 65   70   75   80

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile
                85   90   95

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala
            100   105   110

1162

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro
        115   120   125

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val
        130   135   140

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln
145   150   155   160

Leu Gln Ile Ala Lys Lys Leu Ser Lys Gly Ile Arg Pro Val Leu Gly
                165   170   175

Gln Pro Glu Glu Val Gln Phe Arg Arg Leu Gln Ala Leu Met Met Glu
                180   185   190

Cys Trp Asp Thr Lys Pro Glu Lys Arg Pro Leu Ala Leu Ser Val Val
        195   200   205

Ser Gln Met Lys Asp Pro Thr Phe Ala Thr Phe Met Tyr Glu Leu Cys
        210   215   220

Cys Gly Lys Gln Thr Ala Phe Phe Ser Ser Gln Gly Gln Glu Tyr Thr
225   230   235   240

Val Val Phe Trp Asp Gly Lys Glu Glu Ser Arg Asn Tyr Thr Val Val
                245   250   255

Asn Thr Glu Lys Gly Leu Met Glu Val Gln Arg Met Cys Cys Pro Gly
                260   265   270

Met Lys Val Ser Cys Gln Leu Gln Val Gln Arg Ser Leu Trp Thr Ala
        275   280   285

Thr Glu Asp Gln Lys Ile Tyr Ile Tyr Thr Leu Lys Gly Met Cys Pro
        290   295   300

Leu Asn Thr Pro Gln Gln Ala Leu Asp Thr Pro Ala Val Val Thr Cys
305   310   315   320

Phe Leu Ala Val Pro Val Ile Lys Lys Asn Ser Tyr Leu Val Leu Ala
                325   330   335

Gly Leu Ala Asp Gly Leu Val Ala Val Phe Pro Val Val Arg Gly Thr
                340   345   350

Pro Lys Asp Ser Cys Ser Tyr Leu Cys Ser His Thr Ala Asn Arg Ser
        355   360   365

Lys Phe Ser Ile Ala Asp Glu Asp Ala Arg Gln Asn Pro Tyr Pro Val
        370   375   380

1163

Lys Ala Met Glu Val Val Asn Ser Gly Ser Glu Val Trp Tyr Ser Asn
385   390   395   400

Gly Pro Gly Leu Leu Val Ile Asp Cys Ala Ser Leu Glu Ile Cys Arg
                405   410   415

Arg Leu Glu Pro Tyr Met Ala Pro Ser Met Val Thr Ser Val Val Cys
                420   425   430

Ser Ser Glu Gly Arg Gly Glu Glu Val Val Trp Cys Leu Asp Asp Lys
            435   440   445

Ala Asn Ser Leu Val Met Tyr His Ser Thr Thr Tyr Gln Leu Cys Ala
    450   455   460

Arg Tyr Phe Cys Gly Val Pro Ser Pro Leu Arg Asp Met Phe Pro Val
465   470   475   480

Arg Pro Leu Asp Thr Glu Pro Pro Ala Ala Ser His Thr Ala Asn Pro
                485   490   495

Lys Val Pro Glu Gly Asp Ser Ile Ala Asp Val Ser Ile Met Tyr Ser
                500   505   510

Glu Glu Leu Gly Thr Gln Ile Leu Ile His Gln Glu Ser Leu Thr Asp
            515   520   525

Tyr Cys Ser Met Ser Ser Tyr Ser Ser Ser Pro Pro Arg Gln Ala Ala
    530   535   540

Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Ser Val
545   550   555   560

Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly
                565   570   575

Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu
                580   585   590

Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp
            595   600   605

Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu
    610   615   620

Glu Lys Asp Ser Gly Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys
625   630   635   640

Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val
                645   650   655

Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp

1164

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          660                   665                   670
Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe
        675                   680                   685

Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys
    690                   695                   700

Arg Arg
705


<210> 1622
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1622
Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr
 1   5   10   15

Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp
                20   25   30

Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro
            35   40   45

Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly
        50   55   60

Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile
65   70   75   80

Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe
                85   90   95

Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro
            100   105   110

Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala
            115   120   125

Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys
    130   135   140

Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr
145   150   155   160

Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His
            165   170   175

Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe
            180   185   190

Xaa Phe Asn Leu
        195

<210> 1623
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1623
Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu
1   5   10   15

Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr
            20   25   30

Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly
            35   40   45

His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg
        50   55   60

Phe Gln Pro Gln Trp
65

<210> 1624
<211> 199
<212> PRT
<213> Homo sapiens

<400> 1624
Phe Ser Gly Val Cys Phe Ala Gly Ile Ala Gly Ser Met Ala Thr Leu
1   5   10   15

Leu His Asp Ala Val Met Asn Pro Ala Glu Val Val Lys Gln Arg Leu
            20   25   30

Gln Met Tyr Asn Ser Gln His Arg Ser Ala Ile Ser Cys Ile Arg Thr
            35   40   45

Val Trp Arg Thr Glu Gly Leu Gly Ala Phe Tyr Arg Ser Tyr Thr Thr
        50   55   60

Gln Leu Thr Met Asn Ile Pro Phe Gln Ser Ile His Phe Ile Thr Tyr
65   70   75   80

Glu Phe Leu Gln Glu Gln Val Asn Pro His Arg Thr Tyr Asn Pro Gln
                85   90   95

Ser His Ile Ile Ser Gly Gly Leu Ala Gly Ala Leu Ala Ala Ala Ala
            100   105   110

Thr Thr Pro Leu Asp Val Cys Lys Thr Leu Leu Asn Thr Gln Glu Asn
            115   120   125

Val Ala Leu Ser Leu Ala Asn Ile Ser Gly Arg Leu Ser Gly Met Ala
            130   135   140

1167

Asn Ala Phe Arg Thr Val Tyr Gln Leu Asn Gly Leu Ala Gly Tyr Phe
145   150   155   160

Lys Gly Ile Gln Ala Arg Val Ile Tyr Gln Met Pro Ser Thr Ala Ile
                165   170   175

Ser Trp Ser Val Tyr Glu Phe Phe Lys Tyr Phe Leu Thr Lys Arg Gln
                180   185   190

Leu Glu Asn Arg Ala Pro Tyr
        195

<210> 1625
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1625
Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu
  1   5   10   15

Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr
            20   25   30

Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly
            35   40   45

His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg
        50   55   60

Phe Gln Pro Gln Trp
 65

<210> 1626
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1626
Met Ala Arg Val Leu Gln Leu Glu Pro Gln Thr Ser Ala Cys Leu Leu
  1   5   10   15

Ser Leu Leu Cys Pro Ala Leu Gln Glu Pro Gly Pro Ala Ser Gly Thr

1168

Glu Ser Ala His Phe Leu Arg Ala His Ser Arg Cys Gly Pro Gly Leu
        35   40   45

Pro Pro Pro His Val Ser Ser Pro Gln Pro Thr Pro Pro Gly Pro Glu
    50   55   60

Ala Lys Val Arg Gly Cys Met Gly Ala Arg Trp Trp Leu Gly Arg Ala
65   70   75   80

Pro Gly Val Xaa Gly Val Phe Arg Asp Thr Thr
                85   90

<210> 1627
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1627
Ala His Cys His Ile Ser Arg Ser His Cys Pro Thr Leu Arg Xaa Lys
 1   5   10   15

Asp Thr Cys Gly Gly Trp Glu Pro Thr Ser Ala Leu Gly Ser Ser Thr
            20   25   30

Leu Ser His Val Pro His Xaa Leu Leu Glu Arg Arg Asp Leu Trp Arg
        35   40   45

Arg Glu Ala Glu Ala Arg Lys Gln Ser Gln Pro Asp Pro Ala Met Pro
    50   55   60

Pro Gly His Thr Arg Met Pro Glu Asn Gln Arg Leu Glu Thr Leu Thr
65   70   75   80

Lys Leu Leu Gln Ser Gln Ser Gln Leu Leu Arg Glu Leu Val Leu Leu
                85   90   95

Pro Ala Gly Ala Asp Ser Leu Arg Ala Gln Ser His Arg Ala Glu Leu
            100   105   110

Asp Arg Lys Leu Val Gln Val Glu Glu Ala Ile Lys Ile Phe Ser Arg
      115   120   125

Pro Lys Val Phe Val Lys Met Asp Asp
    130   135

<210> 1628
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1628
Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu
  1   5   10   15

Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu
              20   25   30

Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu
          35   40   45

Lys Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Lys Ala
    50   55   60

Leu His Val Pro Pro Gln Asn Pro Arg Thr Gly Ser Leu Thr Phe Lys
 65   70   75   80

Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro
              85   90   95

<210> 1629
<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1629
Val Gln Leu Ser Val Pro Ala Gly Met Leu His Ser Leu Cys Val Gln

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  1                   5                        10                           15

Leu Phe Ile Thr Ala Gly Ser Leu Cys Ala Thr His Ser Gln Cys Leu
            20                  25                  30

Ser Lys Ala Asp Gly Ala Arg Pro Ser Ile Leu Tyr Leu Thr Cys Pro
            35              40                  45

Leu His Ser Pro Ile Lys Asn Gly Pro Gln Ile Arg Val Glu Glu Ala
        50                  55                  60

Asp Val Ser Ser Ser Glu Thr Ala Leu Pro Arg Ser Arg Arg Asp Gly
65                      70                  75                      80

Xaa Ala Lys Pro Gly Cys Glu Thr Gly Cys Cys Met Trp Leu Gln Ala
                85                  90                  95

Leu Asn Ile Val Thr Trp Arg Leu Pro Gln His Ile Val Arg Ser Lys
            100                 105                 110

Pro Gln Glu Pro Glu Gln Gln Asn Ser Cys His Pro Gln Lys Pro Ala
        115                 120                 125

Pro Gly Thr Ala Val Gln Ile Gly Arg Arg Ser Ser Gln Gln Trp Leu
        130                 135                 140

Leu Arg Thr Pro Leu Thr Gln Gln Arg Ser Pro Asp Ala Cys Arg Ser
145                 150                 155                     160

Pro Glu Xaa Ala Leu Ser Ala Leu Asp Met Ala Gly Asp Thr Gln Val
            165                 170                 175

Trp Pro Ser Gln Ser Leu Phe Ala Lys Leu Lys Val Lys
            180                 185
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<210> 1630
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1630

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Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu
  1                   5                        10                  15

Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu
            20                  25                  30

Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu
            35                  40                  45
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Lys Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Lys Ala
    50                  55                  60

Leu His Val Pro Pro Gln Asn Pro Arg Thr Gly Ser Leu Thr Phe Lys
 65              70                  75                  80

Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro
                85                  90                  95
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<210> 1631
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (250)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (252)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (256)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (257)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (287)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1631
```
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
 1               5                  10                  15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
               20              25              30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
           35              40              45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
     50              55              60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
 65              70              75                      80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
               85              90                      95

Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile
               100             105             110

Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val
           115             120             125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp
     130             135             140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser
145             150             155                     160

Val Val Thr His Pro Gly Gly Cys Arg Gly His Glu Val Glu Asp Val
               165             170             175

Asp Leu Glu Leu Phe Asn Thr Ser Val Gln Leu Gln Pro Pro Thr Thr
           180             185             190

Ala Pro Gly Pro Glu Thr Ala Ala Phe Ile Glu Arg Leu Glu Met Glu
           195             200             205

Gln Ala Gln Lys Ala Lys Asn Pro Gln Glu Gln Lys Ser Phe Phe Xaa
     210             215             220
```

1173

Lys Tyr Trp Met Tyr Ile Ile Pro Val Val Leu Phe Leu Met Met Ser
225   230   235   240

Gly Ala Pro Asp Xaa Gly Gly Gln Gly Xaa Gly Xaa Gly Gly Xaa Xaa
                245   250   255

Xaa Gly Val Val Ala Gly Glu Gly Pro Ser Leu Ser Ala Phe Pro Ser
            260   265   270

Cys Lys Thr Gln Gly Gly Phe Pro Phe Cys Leu Glu Phe Pro Xaa Cys
        275   280   285

Ser Ser Ser Pro Ser Pro Lys Lys Gly Phe Cys Leu Xaa Pro Leu
        290   295   300

<210> 1632
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1632
```
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
 1               5                  10                  15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
                20                  25                  30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
                35                  40                  45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
        50                  55                  60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
 65                  70                  75                  80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
                85                  90                  95

Arg Leu Xaa Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile
                100                 105                 110

Pro Arg Arg Pro Gly Xaa Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val
        115                 120                 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser Xaa Leu Ser Asp
        130                 135                 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Arg Val
145                 150                 155                 160

Gly Gly Asp Xaa Pro Trp Gly Cys Arg Xaa His Xaa Xaa
                165                 170
```

<210> 1633
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1633
```
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
 1               5                  10                  15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
                20                  25                  30
```

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
        35   40   45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
        50   55   60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65   70   75   80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
                85   90   95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
            100   105   110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
        115   120   125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
    130   135   140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
145   150   155

<210> 1634
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1634
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
  1   5   10   15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
                20   25   30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
        35   40   45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
        50   55   60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65   70   75   80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
                85   90   95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg

1176

```
            100                     105                     110
Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
        115                 120                 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
    130             135             140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
145             150             155
```

```
<210> 1635
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1635
Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu
  1               5                  10                  15

Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp
            20                  25                  30

Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro
        35                  40                  45

Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser
    50                  55                  60

Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser
65                  70                  75                  80

Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly
            85                  90                  95

Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys
            100                 105                 110

Ile Lys Leu
        115
```

```
<210> 1636
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1636
Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu
```

1177

Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp
             20   25   30

Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro
         35   40   45

Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser
     50   55   60

Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser
 65   70   75   80

Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly
             85   90   95

Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys
             100   105   110

Ile Lys Leu
         115

<210> 1637
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1637
Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1   5   10   15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
             20   25   30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
         35   40   45

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
     50   55   60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
 65   70   75   80

<210> 1638

<211> 80
<212> PRT
<213> Homo sapiens

<400> 1638
Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1   5   10   15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
            20   25   30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
        35   40   45

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
    50   55   60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
65   70   75   80

<210> 1639
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1639
Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro
 1   5   10   15

Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro
            20   25   30

Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu
        35   40   45

Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg
    50   55   60

Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr
65   70   75   80

Ser

<210> 1640

1179

<211> 81
<212> PRT
<213> Homo sapiens

<400> 1640
Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro
 1   5   10   15

Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro
            20   25   30

Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu
            35   40   45

Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg
        50   55   60

Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr
 65   70   75   80

Ser

<210> 1641
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1641
Met Val Phe Leu Ser His Leu Phe Gly Thr Lys Arg Leu Phe Leu Leu
 1   5   10   15

Leu Ala Leu Ile Trp Ala Ser Trp His Phe Ser Tyr Met Pro Ala Asp
            20   25   30

Ala Trp Val Asp Pro Gly Ile Pro Asp Arg Tyr Leu Gln Ala Tyr Leu
            35   40   45

Ser Ile Val Xaa Pro
        50

<210> 1642
<211> 61

1180

<212> PRT
<213> Homo sapiens

<400> 1642
Met His Val Val His Trp Ser Arg Leu Phe Leu Leu Lys Pro Pro Tyr
1   5   10   15

Ser Val His Ala Thr Phe Ile Pro Thr Gly Phe Leu Ala Arg Phe Arg
                20   25   30

Thr Pro Gly Ile Leu Asp Ser Cys Phe Phe His Ser Trp Pro Leu Leu
            35   40   45

Leu Ser Tyr Phe Leu Ser Pro Gln Ser Pro Leu Leu Lys
    50   55   60

<210> 1643
<211> 86
<212> PRT
<213> Homo sapiens

<400> 1643
Met Leu Thr Ala Val Lys Met Phe Arg Leu Ser Ala Val Thr Leu Cys
1   5   10   15

Ala Phe Ser Leu Thr Leu His Ser Gly Val Gln Leu Cys Glu Gln Leu
                20   25   30

Val Leu Arg Ile Ala Leu Phe Gln Asn Cys Arg Ala Glu Asp Gly Phe
            35   40   45

Gly Leu Arg Val Cys Trp Arg Arg Leu Met Arg Ser Phe Cys Arg Ser
    50   55   60

Ala Lys Phe Trp Gly Ser Asn Asp Leu Arg Thr Trp Gly Ser Arg Phe
65   70   75   80

Leu Trp Lys Asp Cys Thr
                85

<210> 1644
<211> 86
<212> PRT
<213> Homo sapiens

<400> 1644
Met Leu Thr Ala Val Lys Met Phe Arg Leu Ser Ala Val Thr Leu Cys
1   5   10   15

1181

Ala Phe Ser Leu Thr Leu His Ser Gly Val Gln Leu Cys Glu Gln Leu
            20   25   30

Val Leu Arg Ile Ala Leu Phe Gln Asn Cys Arg Ala Glu Asp Gly Phe
            35   40   45

Gly Leu Arg Val Cys Trp Arg Arg Leu Met Arg Ser Phe Cys Arg Ser
        50   55   60

Ala Lys Phe Trp Gly Ser Asn Asp Leu Arg Thr Trp Gly Ser Arg Phe
65   70   75   80

Leu Trp Lys Asp Cys Thr
                85

<210> 1645
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1645
Met Gly Leu Leu Ala Phe Leu Lys Thr Gln Phe Val Leu His Leu Leu
  1   5   10   15

Val Gly Phe Val Phe Val Val Ser Gly Leu Val Ile Asn Phe Val Gln
            20   25   30

Leu Cys Thr Leu Ala Leu Trp Pro Val Ser Lys Gln Leu Tyr Arg Arg
        35   40   45

Leu Asn Cys Arg Leu Ala Tyr Ser Leu Trp Ser Gln Leu Val Met Leu
        50   55   60

Leu Glu Trp Trp Ser Cys Thr Glu Cys Thr Leu Phe Thr Asp Gln Ala
65   70   75   80

Thr Val Glu Arg Phe Gly Lys Glu His Ala Ile Ile Ile Leu Asn His
                85   90   95

Asn Phe Glu Ile Asp Phe Leu Cys Gly Trp Thr Met Cys Glu Arg Phe
            100   105   110

Gly Met Leu Xaa Ser Ser Lys Gly Pro Arg
        115   120

1182

<210> 1646
<211> 121
<212> PRT
<213> Homo sapiens

<400> 1646
Gly Asp Phe Leu Trp Lys Thr Ser Arg Val Asp Glu Lys Glu Ala Ala
1   5   10   15

Gln Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile
            20   25   30

Tyr Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg
            35   40   45

Arg Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu
        50   55   60

Ser Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro
65   70   75   80

Leu Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly
                85   90   95

Val Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr
            100   105   110

Gly Asn Gln Glu Phe Lys Lys Lys Glu
            115   120

<210> 1647
<211> 376
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1647
Met Gly Leu Leu Ala Phe Leu Lys Thr Gln Phe Val Leu His Leu Leu
1   5   10   15

Val Gly Phe Val Phe Val Val Ser Gly Leu Val Ile Asn Xaa Val Gln
            20   25   30

```
Leu Cys Thr Leu Ala Leu Trp Pro Val Ser Lys Gln Leu Tyr Arg Arg
        35                  40                  45

Leu Asn Cys Arg Leu Ala Tyr Ser Leu Trp Ser Gln Leu Val Met Leu
        50                  55                  60

Leu Glu Trp Trp Ser Cys Thr Glu Cys Thr Leu Phe Thr Asp Gln Ala
65                  70                  75                      80

Thr Val Glu Arg Phe Gly Lys Glu His Ala Val Ile Ile Leu Asn His
                85                  90                  95

Asn Phe Glu Ile Asp Phe Leu Cys Gly Trp Thr Met Cys Glu Arg Phe
               100                 105                 110

Gly Val Leu Gly Ser Ser Lys Val Leu Ala Lys Lys Glu Leu Leu Tyr
               115                 120                 125

Val Pro Leu Ile Gly Trp Thr Trp Tyr Phe Leu Glu Ile Val Phe Cys
        130                 135                 140

Lys Arg Lys Trp Glu Glu Asp Arg Asp Thr Val Val Glu Gly Leu Arg
145                 150                 155                    160

Arg Leu Ser Asp Tyr Pro Glu Tyr Met Trp Phe Leu Leu Tyr Cys Glu
               165                 170                 175

Gly Thr Arg Phe Thr Glu Thr Lys His Arg Val Ser Met Glu Val Ala
               180                 185                 190

Ala Ala Lys Gly Leu Pro Val Leu Lys Tyr His Leu Leu Pro Arg Thr
        195                 200                 205

Lys Gly Phe Thr Thr Ala Val Lys Cys Leu Arg Gly Thr Val Ala Ala
        210                 215                 220

Val Tyr Asp Val Thr Leu Asn Phe Arg Gly Asn Lys Asn Pro Ser Leu
225                 230                 235                    240

Leu Gly Ile Leu Tyr Gly Lys Lys Tyr Glu Ala Asp Met Cys Val Arg
               245                 250                 255

Arg Phe Pro Leu Glu Asp Ile Pro Leu Asp Glu Lys Glu Ala Ala Gln
               260                 265                 270

Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile Tyr
               275                 280                 285

Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg Arg
        290                 295                 300

Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu Ser
```

Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro Leu
                325   330   335

Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly Val
            340   345   350

Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr Gly
        355   360   365

Asn Gln Glu Phe Lys Lys Lys Glu
    370   375

<210> 1648
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1648
Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
  1   5   10   15

Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
            20   25   30

Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe
            35   40   45

Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala
    50   55   60

Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp
 65   70   75   80

```
Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln
                     85                  90                  95

Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Xaa
                100                 105                 110

Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg
                115                 120                 125

His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr
        130                 135                 140

Val Xaa Ala Tyr Thr Ala Gly Pro Tyr Val Cys Phe Phe Asn Pro Ala
145                 150                 155                 160

Leu Ala Ala Leu
```

<210> 1649
<211> 186
<212> PRT
<213> Homo sapiens

<400> 1649
```
Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
  1              5                  10                  15

Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
                20                  25                  30

Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe
                35                  40                  45

Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala
        50                  55                  60

Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Met Arg Leu Cys Trp
 65                  70                  75                  80

Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln
                85                  90                  95

Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Leu
                100                 105                 110

Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg
                115                 120                 125

His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr
        130                 135                 140
```

Val Thr Ala Tyr Thr Ala Gly Pro Phe Thr Ser Ala Phe Phe Asn Pro
145   150   155   160

Ala Leu Ala Ala Ser Val Thr Phe Ala Cys Ser Asp Thr Pro Tyr Trp
                165   170   175

Ser Thr Cys Arg Cys Thr Gly Trp Ala Leu
            180   185

<210> 1650
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1650
Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Leu Gly Leu Leu Leu
  1   5   10   15

Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly
                20   25   30

Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn
            35   40   45

Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser
        50   55   60

Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro
 65   70   75   80

Phe Pro Arg Pro Arg Phe Arg Gln Glu Thr Gly His Pro Ser Leu Gln
                85   90   95

Arg Asp Phe Pro Arg Ser Phe Leu Leu Asp Leu Pro Asn Phe Pro Asp
                100   105   110

Leu Ser Lys Ala Asp Ile Asn Gly Gln Asn Pro Asn Ile Gln Val Thr
            115   120   125

Ile Glu Val Val Asp Gly Pro Asp Ser Glu Ala Asp Lys Asp Gln His
        130   135   140

Pro Glu Asn Lys Pro Ser Trp Ser Val Pro Ser Pro Asp Trp Arg Ala
145   150   155   160

1187

```
Trp Trp Gln Arg Ser Leu Ser Leu Ala Arg Ala Asn Ser Gly Asp Gln
            165             170             175

Asp Tyr Gln Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu Asn Pro
            180             185             190

Pro Arg Gly Trp Asp His Thr Xaa Pro Gly His Arg Asp Phe
        195             200             205
```

<210> 1651
<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1651
```
His Phe Ser Lys Gly Lys Gln Gln Asn Lys Trp Glu Lys Asp Asn Gly
 1           5               10              15

Pro His Phe Thr Tyr Phe Asn Thr Ile Leu Thr Ile Phe Ser Ser Thr
            20              25              30

Asn Ile Ser Pro Ile Asn Lys Tyr Lys Arg Gly Gly Gly Ser Ile Trp
            35              40              45

Gly Ile Leu Xaa Phe Tyr Val Leu Arg Lys Gln Lys Lys Leu His Tyr
        50              55              60

Phe Cys Lys Val Phe Ile Glu Ser Arg Ile Ile Val His Gln Ala Ile
65              70              75              80

Val Asn Met Thr Trp Ser Tyr Gly Val Glu Leu Arg Lys Asn Lys Val
            85              90              95

Gly Ser Tyr Ser Ile Phe Tyr Phe Ala Lys Phe
            100             105
```

<210> 1652
<211> 464
<212> PRT
<213> Homo sapiens

<400> 1652

```
Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu
  1           5               10              15

Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly
             20              25              30

Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn
         35              40              45

Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser
     50              55              60

Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro
 65              70              75              80

Phe Pro Arg Pro Arg Phe Arg Gln Glu Thr Gly His Pro Ser Leu Gln
             85              90              95

Arg Asp Phe Pro Arg Ser Phe Leu Leu Asp Leu Pro Asn Phe Pro Asp
         100             105             110

Leu Ser Lys Ala Asp Ile Asn Gly Gln Asn Pro Asn Ile Gln Val Thr
         115             120             125

Ile Glu Val Val Asp Gly Pro Asp Ser Glu Ala Asp Lys Asp Gln His
     130             135             140

Pro Glu Asn Lys Pro Ser Trp Ser Val Pro Ser Pro Asp Trp Arg Ala
145             150             155             160

Trp Trp Gln Arg Ser Leu Ser Leu Ala Arg Ala Asn Ser Gly Asp Gln
             165             170             175

Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu Asn Pro
         180             185             190

Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe Glu Thr
         195             200             205

Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp Trp Ser
     210             215             220

Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln Lys Arg
225             230             235             240

Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg Thr Cys
             245             250             255

Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr Ala Ala
         260             265             270

Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala Thr Lys
```

1189

Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser Cys Lys
    290   295   300

Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp Leu Pro
305   310   315   320

Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr Ala Asp
                325   330   335

Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp Ala Ser
            340   345   350

Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg Tyr Cys
        355   360   365

Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala Gln His
    370   375   380

Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys Gly Ala
385   390   395   400

Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu His Tyr
                405   410   415

Lys Val Asp Val Leu Pro Trp Ile Ile Cys Lys Gly Asp Trp Ser Arg
            420   425   430

Tyr Asn Glu Ala Arg Pro Pro Asn Asn Gly Gln Lys Cys Thr Glu Ser
        435   440   445

Pro Ser Asp Glu Asp Tyr Ile Lys Gln Phe Gln Glu Ala Arg Glu Tyr
    450   455   460

<210> 1653
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1653
Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
  1   5   10   15

Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr
                20   25   30

```
Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met
        35              40              45

Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile
    50              55              60

Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln
65              70              75                      80

Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala
            85              90              95

Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
        100             105             110

Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu
        115             120             125

Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile
    130             135             140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
145             150             155


<210> 1654
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1654
Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln
  1             5               10              15

Pro Pro Pro Tyr His Glu Leu Pro His Xaa His Gly Gln Ser Gln Arg
            20              25              30

Val Leu Cys Gly Cys Tyr Val Ala His Cys Gly Ala Arg Leu Gly Arg
        35              40              45

Ala Leu Leu Val Cys Asp Trp Val Ser Trp Pro Ser Cys Ala Cys Ser
    50              55              60

Tyr Ser Ala Trp Ala Gln Pro Thr Ser Cys Cys His Thr Gly Asp Cys
65              70              75                      80
```

Gly His Cys Asp Ser His Gln Gln Cys Leu Val Pro Pro Pro Ser Leu
                    85   90   95

Arg Gly Arg Gln Gly Thr Phe Asp Tyr Phe
                100   105

<210> 1655
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1655
Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
  1   5   10   15

Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr
                20   25   30

Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met
            35   40   45

Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile
        50   55   60

Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln
 65   70   75   80

Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala
                85   90   95

Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
                100   105   110

Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu
            115   120   125

Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile
        130   135   140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
145   150   155

<210> 1656
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1656

1192

```
Met His Arg Pro Glu Ala Met Leu Leu Leu Leu Thr Leu Ala Leu Leu
 1               5                   10                      15

Gly Gly Pro Thr Trp Ala Gly Lys Met Tyr Gly Pro Gly Gly Gly Lys
             20                  25                  30

Tyr Phe Ser Thr Thr Glu Asp Tyr Asp His Glu Ile Thr Gly Leu Arg
             35                  40                  45

Val Ser Val Gly Leu Leu Leu Val Lys Arg Phe Leu Glu Gly Val Ile
     50                  55                  60

Tyr Glu
 65


<210> 1657
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1657
Met His Arg Pro Glu Ala Met Leu Leu Leu Leu Thr Leu Ala Leu Leu
 1               5                   10                      15

Gly Gly Pro Thr Trp Ala Gly Lys Met Tyr Gly Pro Gly Gly Gly Lys
             20                  25                  30

Tyr Phe Ser Thr Thr Glu Asp Tyr Asp His Glu Ile Thr Gly Leu Arg
             35                  40                  45

Val Ser Val Gly Leu Leu Leu Val Lys Ser Val Gln Val Lys Leu Gly
     50                  55                  60

Asp Ser Trp Asp Val Lys Leu Gly Ala Leu Gly Gly Asn Thr Gln Glu
 65                  70                  75                      80

Val Thr Leu Gln Pro Gly Glu Tyr Ile Thr Lys Val Phe Val Ala Phe
                 85                  90                  95

Gln Ala Phe Leu Arg Gly Met Val Met Tyr Thr Ser Lys Asp Arg Tyr
                100                 105                 110

Phe Tyr Phe Gly Lys Leu Asp Gly Gln Ile Ser Ser Ala Tyr Pro Ser
            115                 120                 125

Gln Glu Gly Gln Val Leu Val Gly Ile Tyr Gly Gln Tyr Gln Leu Leu
        130                 135                 140

Gly Ile Lys Ser Ile Gly Phe Glu Trp Asn Tyr Pro Leu Glu Glu Pro
145                 150                 155                 160
```

Thr Thr Glu Pro Pro Val Asn Leu Thr Tyr Ser Ala Asn Ser Pro Val
            165   170   175

Gly Arg

<210> 1658
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1658
Met Thr Phe Cys Leu Phe Val Leu Phe Cys Leu Xaa Trp Ser Leu Ala
 1   5   10   15

Leu Leu Pro Arg Val Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn
            20   25   30

Leu His Leu Pro Gly Ser Gly Gly Phe Ser Cys Leu Ser Leu Leu Ser
            35   40   45

Ser Trp Asp Xaa Arg His Ala Pro Pro Cys Pro Asp Asn Phe Cys Xaa
      50   55   60

1194

Phe Ser Xaa Xaa Gly Val Ser Leu Cys Trp Gln Ala Gly Leu Glu His
65   70   75   80

Leu Thr Arg Gly Pro Pro Ala Ser Ala Ser Gln Ser Thr Gly Ile Thr
            85   90   95

Gly Val Ser His Pro Ala Trp Pro Arg Met Thr Phe Lys Arg Ser Asn
            100   105   110

<210> 1659
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1659
Met Thr Thr Ala Ser Ser Leu Ile Ser Pro Phe Phe Pro Leu Pro Pro
 1   5   10   15

Pro Ala His Phe Ser Gln Cys Arg Met Thr Phe Cys Leu Phe Val Leu
            20   25   30

Phe Cys Leu Arg Trp Ser Leu Ala Leu Leu Pro Arg Val Glu Cys Ser
        35   40   45

Gly Ala Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Gly
        50   55   60

Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Ala Pro
65   70   75   80

Pro Cys Pro Asp Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Leu
            85   90   95

Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Val Val His Pro Pro
            100   105   110

Arg Pro Pro Lys Ala Leu Gly Leu Gln Ala
        115   120

<210> 1660
<211> 65
<212> PRT
<213> Homo sapiens

<220>

1195

<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu
 1   5   10   15

Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr
                20   25   30

Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
                35   40   45

Ile Ser Ala Ala Tyr Val Leu Ala Pro Leu Gln Asn Pro Val Ser Ser
    50   55   60

Leu
 65

<210> 1661
<211> 299
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1661
Gly Gly Glu Glu Glu Gly Glu Glu Gly Ala Glu Ile Ser Gly Leu Gly
 1   5   10   15

Ala Gly Arg Arg Ser Ala Pro Ile Ala Val Gly Leu Gly Phe Leu Gly
                20   25   30

Val Gly Gly Arg Gly Gly Ser Asp Met Glu Ala Asn Gly Ser Gln Gly
                35   40   45

Thr Ser Gly Ser Ala Asn Asp Ser Gln His Asp Pro Gly Lys Met Phe
    50   55   60

Ile Gly Gly Leu Ser Trp Gln Thr Ser Pro Asp Ser Leu Arg Asp Tyr
 65   70   75   80

1196

```
Phe Ser Lys Phe Gly Glu Ile Arg Glu Cys Met Val Met Arg Asp Pro
                85                      90                      95

Thr Thr Lys Arg Ser Arg Gly Phe Gly Phe Val Thr Phe Ala Asp Pro
            100                 105                 110

Ala Ser Val Asp Lys Val Leu Gly Gln Pro His His Glu Leu Asp Ser
        115                 120                 125

Lys Thr Ile Asp Pro Lys Val Ala Phe Pro Arg Arg Ala Gln Pro Lys
    130                 135                 140

Met Val Thr Arg Thr Lys Lys Ile Phe Val Gly Gly Leu Ser Ala Asn
145                 150                 155                 160

Thr Val Val Glu Asp Val Lys Gln Tyr Phe Glu Xaa Phe Xaa Lys Val
                165                 170                 175

Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly
            180                 185                 190

Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu Lys Val Cys
            195                 200                 205

Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Glu Cys Lys Lys
    210                 215                 220

Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala
225                 230                 235                 240

Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met
            245                 250                 255

Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala
            260                 265                 270

Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu
        275                 280                 285

Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu
    290                 295


<210> 1662
<211> 97
<212> PRT
<213> Homo sapiens

<400> 1662
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu


                              1197
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     1                    5                         10                        15

Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr
            20                    25                    30

Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
        35                    40                    45

Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile
    50                    55                    60

Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu
65                    70                    75                    80

Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser
                85                    90                    95

Gly
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```
<210> 1663
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1663
Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr
  1                    5                    10                    15

Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe
            20                    25                    30

Leu Pro Leu Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro
        35                    40                    45

Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys
    50                    55                    60

Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln
65                    70                    75                    80

Asn Pro Ser Met Pro Arg
                85
```

1198

<210> 1664
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1664
Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr
 1   5   10   15

Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe
                20   25   30

Leu Pro Leu Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro
            35   40   45

Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys
        50   55   60

Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln
 65   70   75   80

Asn Pro Ser Met Pro Arg
                85

<210> 1665
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1665
Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser
 1   5   10   15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
                20   25   30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
            35   40   45

Leu

1199

<210> 1666
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1666
Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser
 1   5   10   15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
             20   25   30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
             35   40   45

Leu

<210> 1667
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1667
Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1   5   10   15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
             20   25   30

1200

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
    35   40   45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
    50   55   60

His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln
 65   70   75   80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn
                85   90   95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Arg Xaa Gly Cys Glu Ser
                100   105   110

Ser Ala Trp Met Gln Pro Gly Gly Ser His Arg Ala Ala Phe Thr Gly
                115   120   125

Leu Ala Leu Pro Trp Ala Gly Gly Arg Pro His Pro Lys Arg
    130   135   140

<210> 1668
<211> 110
<212> PRT
<213> Homo sapiens

<400> 1668
Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1   5   10   15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
                20   25   30

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
    35   40   45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
    50   55   60

His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Gln
 65   70   75   80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Gln Phe Pro His Leu His Asn
                85   90   95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Gln Glu Arg Leu
                100   105   110

1201

<210> 1669
<211> 159
<212> PRT
<213> Homo sapiens

<400> 1669
Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu
1   5   10   15

Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu
            20   25   30

Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln
        35   40   45

Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr
    50   55   60

Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly
65   70   75   80

Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg
            85   90   95

Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln
            100   105   110

Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln
        115   120   125

Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe
    130   135   140

Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu
145   150   155

<210> 1670
<211> 110
<212> PRT
<213> Homo sapiens

<400> 1670
Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Val Leu
1   5   10   15

Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr
            20   25   30

Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe
        35   40   45

1202

```
Ser His Leu Lys Gln Asn Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser
    50                  55                  60

Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro
 65                  70                  75                  80

Pro Phe Pro Ser Lys His Leu Lys Arg Val Val Tyr Thr Gln His Ser
                85                  90                  95

Pro Phe Pro His Tyr Pro Leu Thr Pro Gln Pro Ala Ala Ile
                100                 105                 110


<210> 1671
<211> 382
<212> PRT
<213> Homo sapiens

<400> 1671
Gly Pro Glu Arg Gly Arg Tyr Tyr Pro Lys Ser His Lys Asn Val Asp
 1               5                   10                  15

Leu Asn Asp Val Leu Val Pro Lys Pro Phe Ser Gln Phe Trp Gln Pro
                20                  25                  30

Leu Leu Arg Gly Leu His Ser Gln Asn Phe Thr Gln Ala Leu Leu Glu
            35                  40                  45

Arg Met Leu Ser Glu Leu Pro Ala Leu Gly Ile Ser Gly Ile Arg Pro
    50                  55                  60

Thr Tyr Ile Leu Arg Trp Thr Val Glu Leu Ile Val Ala Asn Thr Lys
 65                  70                  75                  80

Thr Gly Arg Asn Ala Arg Arg Phe Ser Ala Gly Gln Trp Glu Ala Arg
                85                  90                  95

Arg Gly Trp Arg Leu Phe Asn Cys Ser Ala Ser Leu Asp Trp Pro Arg
                100                 105                 110

Met Val Glu Ser Cys Leu Gly Ser Pro Cys Trp Ala Ser Pro Gln Leu
                115                 120                 125

Leu Arg Ile Ile Phe Lys Ala Met Gly Gln Gly Leu Pro Asp Glu Glu
    130                 135                 140

Gln Glu Lys Leu Leu Arg Ile Cys Ser Ile Tyr Thr Gln Ser Gly Glu
145                 150                 155                 160

Asn Ser Leu Val Gln Glu Gly Ser Glu Ala Ser Pro Ile Gly Lys Ser
```

```
Pro Tyr Thr Leu Asp Ser Leu Tyr Trp Ser Val Lys Pro Ala Ser Ser
            180                 185             190

Ser Phe Gly Ser Glu Ala Lys Ala Gln Gln Gln Glu Glu Gln Gly Ser
          195             200             205

Val Asn Asp Val Lys Glu Glu Glu Lys Glu Glu Lys Glu Val Leu Pro
    210             215             220

Asp Gln Val Glu Glu Glu Glu Glu Asn Asp Asp Gln Glu Glu Glu Glu
225             230             235             240

Glu Asp Glu Asp Asp Glu Asp Asp Glu Glu Glu Asp Arg Met Glu Val
            245             250             255

Gly Pro Phe Ser Thr Gly Gln Glu Ser Pro Thr Ala Glu Asn Ala Arg
            260             265             270

Leu Leu Ala Gln Lys Arg Gly Ala Leu Gln Gly Ser Ala Trp Gln Val
          275             280             285

Ser Ser Glu Asp Val Arg Trp Asp Thr Phe Pro Leu Gly Arg Met Pro
    290             295             300

Gly Gln Thr Glu Asp Pro Ala Glu Leu Met Leu Glu Asn Tyr Asp Thr
305             310             315             320

Met Tyr Leu Leu Asp Gln Pro Val Leu Glu Gln Arg Leu Glu Pro Ser
            325             330             335

Thr Cys Lys Thr Asp Thr Leu Gly Leu Ser Cys Gly Val Gly Ser Gly
          340             345             350

Asn Cys Ser Asn Ser Ser Ser Ser Asn Phe Glu Gly Leu Leu Trp Ser
          355             360             365

Gln Gly Gln Leu His Gly Leu Lys Thr Gly Leu Gln Leu Phe
    370             375             380
```

```
Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Val Leu
 1               5               10              15
```

```
Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr
            20                  25                  30

Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe
            35                  40                  45

Ser His Leu Lys Gln Asn Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser
        50                  55                  60

Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro
    65                  70                  75                  80

Pro Phe Pro Ser Lys His Leu Lys Arg Val Val Tyr Thr Gln His Ser
                85                  90                  95

Pro Phe Pro His Tyr Pro Leu Thr Pro Gln Pro Ala Ala Ile
                100                 105                 110


<210> 1673
<211> 156
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1673
Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
  1               5                   10                  15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
            20                  25                  30
```

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
        35   40   45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
    50   55   60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
65   70   75   80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Xaa Tyr Leu Ala Asp
                85   90   95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
            100   105   110

Ala Xaa Asn Phe Gly Ser Thr Leu Met Xaa Lys Lys Ser Asp Pro Glu
        115   120   125

Gly Pro Ala Leu Leu Xaa Pro Glu Ser Glu Leu Phe Ile Arg Ile Gly
    130   135   140

Arg Leu Ala Ser Phe Ser Ser Ser Leu Leu Gln His
145   150   155

<210> 1674
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1674
Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
  1   5   10   15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
                20   25   30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
        35   40   45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
    50   55   60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
65   70   75   80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp
                    85   90   95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
                100   105   110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu
            115   120   125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser
        130   135   140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu
145   150   155   160

Pro Glu Gly Pro Ala Val Pro
                165

<210> 1675
<211> 204
<212> PRT
<213> Homo sapiens

<400> 1675
Met Phe Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe
  1   5   10   15

Thr Arg Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Leu Ala Leu Ala
                20   25   30

Leu Phe Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu
            35   40   45

Gly Asp Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp
        50   55   60

Leu Asp Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser
65   70   75   80

Arg Pro Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu
                85   90   95

Leu Pro Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val
                100   105   110

Ala Ser Gly Arg Tyr Cys Gln Pro Glu Glu Glu Val Ala Arg Leu Leu
            115   120   125

Thr Met Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu
        130   135   140

Gly Val Glu Ala Thr Ala Ser Asp Val Glu Leu Lys Lys Ala Tyr Arg
145   150   155   160

Gln Leu Ala Val Met Val His Pro Asp Lys Asn His His Pro Arg Ala
                165   170   175

Glu Glu Ala Phe Lys Val Phe Ala Ser Ser Leu Gly Thr Leu Ser Ala
                180   185   190

Met Leu Lys Lys Arg Lys Gly Val Trp Arg Leu Lys
            195   200

<210> 1676
<211> 412
<212> PRT
<213> Homo sapiens

<400> 1676
Met Gly Val Trp Thr Gly Arg Leu Gly Gly Trp Ala Gln Val Met Phe
  1   5   10   15

Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe Thr Arg
            20   25   30

Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Leu Ala Leu Ala Leu Phe
            35   40   45

Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu Gly Asp
      50   55   60

Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp Leu Asp
 65   70   75   80

Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser Arg Pro
                85   90   95

Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu Leu Pro
            100   105   110

Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val Ala Ser
            115   120   125

Gly Arg Tyr Cys Gln Pro Glu Glu Val Ala Arg Leu Leu Thr Met
            130   135   140

Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu Gly Val
145   150   155   160

Glu Ala Thr Ala Ser Asp Val Glu Leu Lys Lys Ala Tyr Arg Gln Leu

1208

Ala Val Met Val His Pro Asp Lys Asn His His Pro Arg Ala Glu Glu
            180   185   190

Ala Phe Lys Val Leu Arg Ala Ala Trp Asp Ile Val Ser Asn Ala Glu
            195   200   205

Lys Arg Lys Glu Tyr Glu Met Lys Arg Met Ala Glu Asn Glu Leu Ser
    210   215   220

Arg Ser Val Asn Glu Phe Leu Ser Lys Leu Gln Asp Asp Leu Lys Glu
225   230   235   240

Ala Met Asn Thr Met Met Cys Ser Arg Cys Gln Gly Lys His Arg Arg
                245   250   255

Phe Glu Met Asp Arg Glu Pro Lys Ser Ala Arg Tyr Cys Ala Glu Cys
            260   265   270

Asn Arg Leu His Pro Ala Glu Glu Gly Asp Phe Trp Ala Glu Ser Ser
            275   280   285

Met Leu Gly Leu Lys Ile Thr Tyr Phe Ala Leu Met Asp Gly Lys Val
    290   295   300

Tyr Asp Ile Thr Gln Trp Ala Gly Cys Gln Arg Val Gly Ile Ser Pro
305   310   315   320

Asp Thr His Arg Val Pro Tyr His Ile Ser Phe Gly Ser Arg Ile Pro
                325   330   335

Gly Thr Arg Gly Arg Gln Arg Ala Thr Pro Asp Ala Pro Pro Ala Asp
            340   345   350

Leu Gln Asp Phe Leu Ser Arg Ile Phe Gln Val Pro Pro Gly Gln Met
            355   360   365

Pro Asn Gly Asn Phe Phe Ala Ala Pro Gln Pro Ala Pro Gly Ala Ala
    370   375   380

Ala Ala Ser Lys Pro Asn Ser Thr Val Pro Lys Gly Glu Ala Lys Pro
385   390   395   400

Lys Arg Arg Lys Lys Val Arg Arg Pro Phe Gln Arg
            405   410

<210> 1677
<211> 122
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1677
Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys
 1   5   10   15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro
            20   25   30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser
            35   40   45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln
    50   55   60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu
 65   70   75   80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys
                85   90   95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Leu Ala Gly His Thr Lys
            100   105   110

Lys Glu Ile Asn Arg Ile Xaa Glu Pro Gly
        115   120

<210> 1678
<211> 246
<212> PRT
<213> Homo sapiens

<400> 1678
Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys
 1   5   10   15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro
            20   25   30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser
            35   40   45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln
    50   55   60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu
 65   70   75   80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys
                85   90   95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Trp Gln Ala Tyr Lys Glu
             100   105   110

Glu Ile Asn Arg Ile Gln Glu Gln Leu Thr Pro Ser Gln Ile Val Ser
         115   120   125

Leu Glu Lys Glu Ile Gln Gln Lys Arg Leu Lys Lys Lys Ala Leu Ile
     130   135   140

Lys Lys Arg Glu Leu Thr Met Leu Gly Lys Pro Lys Arg Pro Arg Ser
145   150   155   160

Ala Tyr Asn Ile Phe Ile Ala Glu Arg Phe Gln Glu Thr Lys Asp Gly
             165   170   175

Thr Ser Gln Val Lys Leu Lys Thr Ile Asn Glu Asn Trp Lys Asn Leu
             180   185   190

Ser Ser Ser Gln Lys Gln Val Tyr Ile Gln Leu Ala Asn Asp Asp Lys
         195   200   205

Ile Arg Tyr Tyr Asn Glu Met Lys Ser Trp Glu Glu Gln Met Met Glu
     210   215   220

Val Gly Arg Lys Asp Leu Leu Arg Arg Thr Val Lys His Gln Arg Lys
225   230   235   240

Val Asp Pro Glu Glu Tyr
             245

<210> 1679
<211> 495
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (330)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (333)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1679
Met Ser Met Leu Val Val Phe Leu Leu Leu Trp Gly Val Thr Trp Gly
 1   5   10   15

Pro Val Thr Glu Ala Ala Ile Phe Tyr Glu Thr Gln Pro Ser Leu Trp
            20   25   30

Ala Glu Ser Glu Ser Leu Leu Lys Pro Leu Ala Asn Val Thr Leu Thr
            35   40   45

Cys Gln Ala Arg Leu Glu Thr Pro Asp Phe Gln Leu Phe Lys Asn Gly
        50   55   60

Val Ala Gln Glu Pro Val His Leu Asp Ser Pro Ala Ile Lys His Gln
65   70   75   80

Phe Leu Leu Thr Gly Asp Thr Gln Gly Arg Tyr Arg Cys Arg Ser Gly
                85   90   95

Leu Ser Thr Gly Trp Thr Gln Leu Ser Lys Leu Leu Glu Leu Thr Gly
            100   105   110

Pro Lys Ser Leu Pro Ala Pro Trp Leu Ser Met Ala Pro Val Ser Trp
        115   120   125

Ile Thr Pro Gly Leu Lys Thr Thr Ala Val Cys Arg Gly Val Leu Arg
    130   135   140

Gly Val Thr Phe Leu Leu Arg Arg Glu Gly Asp His Glu Phe Leu Glu
145   150   155   160

Val Pro Glu Ala Gln Glu Asp Val Glu Ala Thr Phe Pro Val His Gln
                165   170   175

Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr Asp Gly Glu Gly Ala Leu
                180   185   190

Ser Glu Pro Ser Ala Thr Val Thr Ile Glu Glu Leu Ala Ala Pro Pro
            195   200   205

Pro Pro Val Leu Met His His Gly Glu Ser Ser Gln Val Leu His Pro
    210   215   220

Gly Asn Lys Val Thr Leu Thr Cys Val Ala Pro Leu Ser Gly Val Asp
225   230   235   240

Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu Leu Val Pro Arg Ser Ser
            245   250   255

Thr Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly
            260   265   270

1212

```
Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg Leu His Asp Asn Gln Asn
        275                 280                 285

Gly Trp Ser Gly Asp Ser Ala Pro Val Glu Leu Ile Leu Ser Asp Glu
    290                 295                 300

Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu Pro Glu Ser Gly Arg Ala
305                 310                 315                 320

Leu Arg Leu Arg Cys Leu Ala Pro Leu Xaa Gly Ala Xaa Phe Ala Leu
                325                 330                 335

Val Arg Glu Asp Arg Gly Gly Arg Arg Val His Arg Phe Gln Ser Pro
                340                 345                 350

Ala Gly Thr Glu Ala Leu Phe Glu Leu His Asn Ile Ser Val Ala Asp
        355                 360                 365

Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp Leu Lys Pro Pro Phe Gly
    370                 375                 380

Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu His Val Asp Gly Pro Pro
385                 390                 395                 400

Pro Arg Pro Gln Leu Arg Ala Thr Trp Ser Gly Ala Val Leu Ala Gly
                405                 410                 415

Arg Asp Ala Val Leu Arg Cys Glu Gly Pro Ile Pro Asp Val Thr Phe
                420                 425                 430

Glu Leu Leu Arg Glu Gly Glu Thr Lys Ala Val Lys Thr Val Arg Thr
                435                 440                 445

Pro Gly Ala Ala Ala Asn Leu Glu Leu Ile Phe Val Gly Pro Gln His
    450                 455                 460

Ala Gly Asn Tyr Arg Cys Arg Tyr Arg Ser Trp Val Pro His Thr Phe
465                 470                 475                 480

Glu Ser Glu Leu Ser Asp Pro Val Glu Leu Leu Val Ala Glu Ser
                485                 490                 495


<210> 1680
<211> 495
<212> PRT
<213> Homo sapiens

<400> 1680
Met Ser Met Leu Val Val Phe Leu Leu Leu Trp Gly Val Thr Trp Gly
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1213

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  1                   5                           10                              15
Pro Val Thr Glu Ala Ala Ile Phe Tyr Glu Thr Gln Pro Ser Leu Trp
            20                      25                  30

Ala Glu Ser Glu Ser Leu Leu Lys Pro Leu Ala Asn Val Thr Leu Thr
            35                  40                  45

Cys Gln Ala Arg Leu Glu Thr Pro Asp Phe Gln Leu Phe Lys Asn Gly
    50                      55                  60

Val Ala Gln Glu Pro Val His Leu Asp Ser Pro Ala Ile Lys His Gln
65                  70                  75                      80

Phe Leu Leu Thr Gly Asp Thr Gln Gly Arg Tyr Arg Cys Arg Ser Gly
                85                  90                  95

Leu Ser Thr Gly Trp Thr Gln Leu Ser Lys Leu Leu Glu Leu Thr Gly
            100                 105                 110

Pro Lys Ser Leu Pro Ala Pro Trp Leu Ser Met Ala Pro Val Ser Trp
            115                 120                 125

Ile Thr Pro Gly Leu Lys Thr Thr Ala Val Cys Arg Gly Val Leu Arg
    130                 135                 140

Gly Val Thr Phe Leu Leu Arg Arg Glu Gly Asp His Glu Phe Leu Glu
145                 150                 155                     160

Val Pro Glu Gly Gln Glu Asp Val Glu Ala Thr Phe Pro Val His Gln
            165                 170                 175

Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr Asp Gly Glu Gly Ala Leu
            180                 185                 190

Ser Glu Pro Ser Ala Thr Val Thr Ile Glu Glu Leu Ala Ala Pro Pro
            195                 200                 205

Pro Pro Val Leu Met His His Gly Glu Ser Ser Gln Val Leu His Pro
    210                 215                 220

Gly Asn Lys Val Thr Leu Thr Cys Val Ala Pro Leu Ser Gly Val Asp
225                 230                 235                     240

Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu Leu Val Pro Arg Ser Ser
            245                 250                 255

Thr Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly
            260                 265                 270

Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg Leu His Asp Asn Gln Asn
            275                 280                 285

                                1214
```

Gly Trp Ser Gly Asp Ser Ala Pro Val Glu Leu Ile Leu Ser Asp Glu
    290   295   300

Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu Pro Glu Ser Gly Arg Ala
305   310   315   320

Leu Arg Leu Arg Cys Leu Ala Pro Leu Glu Gly Ala Arg Phe Ala Leu
                325   330   335

Val Arg Glu Asp Arg Gly Gly Arg Arg Val His Arg Phe Gln Ser Pro
                340   345   350

Ala Gly Thr Glu Ala Leu Phe Glu Leu His Asn Ile Ser Val Ala Asp
                355   360   365

Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp Leu Lys Pro Pro Phe Gly
    370   375   380

Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu His Val Asp Gly Pro Pro
385   390   395   400

Pro Arg Pro Gln Leu Arg Ala Thr Trp Ser Gly Ala Val Leu Ala Gly
                405   410   415

Arg Asp Ala Val Leu Arg Cys Glu Gly Pro Ile Pro Asp Val Thr Phe
                420   425   430

Glu Leu Leu Arg Glu Gly Glu Thr Lys Ala Val Lys Thr Val Arg Thr
                435   440   445

Pro Gly Ala Ala Ala Asn Leu Glu Leu Ile Phe Val Gly Pro Gln His
    450   455   460

Ala Gly Asn Tyr Arg Cys Arg Tyr Arg Ser Trp Val Pro His Thr Phe
465   470   475   480

Glu Ser Glu Leu Ser Asp Pro Val Glu Leu Leu Val Ala Glu Ser
                485   490   495

<210> 1681
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1681
Met Leu Lys Asp Phe Ser Asn Leu Leu Leu Val Val Leu Cys Asp Tyr
  1   5   10   15

Val Leu Gly Glu Ala Glu Tyr Leu Leu Leu Arg Glu Pro Gly His Val

1215

```
                  20                      25                      30

    Ala Leu Ser Asn Asp Thr Val Tyr Val Asp Phe Gln Tyr Phe Asp Gly
            35                  40                  45

    Ala Asn Gly Thr Leu Arg Asn Val Ser Val Leu Leu Leu Glu Ala Asn
        50                  55                  60

    Thr Asn Gln Thr Val Thr Thr Lys Tyr Leu Leu Thr Asn Gln Ser Gln
    65                  70                  75                      80

    Gly Thr Leu Lys Phe Glu Cys Phe Tyr Phe Lys Glu Ala Gly Asp Tyr
                    85                  90                      95

    Trp Phe Thr Met Thr Pro Glu Ala Thr Asp Asn Ser Thr Pro Phe Pro
                    100                 105                 110

    Trp Trp Glu Lys Ser Ala Phe Leu Lys Val Glu Trp Pro Val Phe His
            115                 120                 125

    Val Asp Leu Asn Arg Ser Ala Lys Ala Ala Glu Gly Thr Phe Gln Val
        130                 135                 140

    Gly Leu Phe Thr Ser Gln Pro Leu Cys
    145                 150


    <210> 1682
    <211> 78
    <212> PRT
    <213> Homo sapiens

    <400> 1682
    Ser Ser Pro Thr Ser Pro Lys Asp Asn Tyr Gln Arg Val Ser Ser Leu
     1               5                   10                  15

    Ser Pro Ser Gln Cys Arg Lys Asp Lys Cys Gln Ser Phe Pro Thr His
                    20                  25                  30

    Pro Glu Phe Ala Phe Tyr Asp Asn Thr Ser Phe Gly Leu Thr Glu Ala
            35                  40                  45

    Glu Gln Arg Met Leu Asp Leu Pro Gly Tyr Phe Gly Ser Asn Glu Glu
        50                  55                  60

    Asp Glu Thr Thr Ser Thr Leu Ser Val Glu Lys Leu Val Ile
    65                  70                  75


    <210> 1683
```

1216

<211> 490
<212> PRT
<213> Homo sapiens

<400> 1683
Met Gly Lys Asn Lys Tyr Cys Phe Asp Phe Gly Ile Ser Ser Arg Ser
 1   5   10   15

His Phe Ser Ala Lys Glu Glu Cys Met Leu Ile Gln Arg Asn Thr Ala
            20   25   30

Phe Gln Pro Ser Ser Pro Ser Pro Leu Gln Pro Gln Gly Pro Val Lys
            35   40   45

Ser Asn Asn Ile Val Thr Val Thr Gly Ile Ser Leu Cys Leu Phe Ile
        50   55   60

Ile Ile Ala Thr Val Leu Ile Thr Leu Trp Arg Arg Phe Gly Arg Pro
 65   70   75   80

Ala Lys Cys Ser Thr Pro Ala Arg His Asn Ser Ile His Ser Pro Ser
                85   90   95

Phe Arg Lys Asn Ser Asp Glu Glu Asn Ile Cys Glu Leu Ser Glu Gln
            100   105   110

Arg Gly Ser Phe Ser Asp Gly Gly Asp Gly Pro Thr Gly Ser Pro Gly
            115   120   125

Asp Thr Gly Ile Pro Leu Thr Tyr Arg Arg Ser Gly Pro Val Pro Pro
        130   135   140

Glu Asp Asp Ala Ser Gly Ser Glu Ser Phe Gln Ser Asn Ala Gln Lys
145   150   155   160

Ile Ile Pro Pro Leu Phe Ser Tyr Arg Leu Ala Gln Gln Gln Leu Lys
                165   170   175

Glu Met Lys Lys Lys Gly Leu Thr Glu Thr Thr Lys Val Tyr His Val
            180   185   190

Ser Gln Ser Pro Leu Thr Asp Thr Ala Ile Asp Ala Ala Pro Ser Ala
            195   200   205

Pro Leu Asp Leu Glu Ser Pro Glu Glu Ala Ala Ala Asn Lys Phe Arg
        210   215   220

Ile Lys Ser Pro Phe Pro Glu Gln Pro Ala Val Ser Ala Gly Glu Arg
225   230   235   240

Pro Pro Ser Arg Leu Asp Leu Asn Val Thr Gln Ala Ser Cys Ala Ile
                245   250   255

1217

Ser Pro Ser Gln Thr Leu Ile Arg Lys Ser Gln Ala Arg His Val Gly
                260   265   270

Ser Arg Gly Gly Pro Ser Glu Arg Ser His Ala Arg Asn Ala His Phe
                275   280   285

Arg Arg Thr Ala Ser Phe His Glu Ala Arg Gln Ala Arg Pro Phe Arg
        290   295   300

Glu Arg Ser Met Ser Thr Leu Thr Pro Arg Gln Ala Pro Ala Tyr Ser
305   310   315   320

Ser Arg Thr Arg Thr Cys Glu Gln Ala Glu Asp Arg Phe Arg Pro Gln
                325   330   335

Ser Arg Gly Ala His Leu Phe Pro Glu Lys Leu Glu His Phe Gln Glu
                340   345   350

Ala Ser Gly Thr Arg Gly Pro Leu Asn Pro Leu Pro Lys Ser Tyr Thr
        355   360   365

Leu Gly Gln Pro Leu Arg Lys Pro Asp Leu Gly Asp His Gln Ala Gly
        370   375   380

Leu Val Ala Gly Ile Glu Arg Thr Glu Pro His Arg Ala Arg Arg Gly
385   390   395   400

Pro Ser Pro Ser His Lys Ser Val Ser Arg Lys Gln Ser Ser Pro Ile
                405   410   415

Ser Pro Lys Asp Asn Tyr Gln Arg Val Ser Ser Leu Ser Pro Ser Gln
                420   425   430

Cys Arg Lys Asp Lys Cys Gln Ser Phe Pro Thr His Pro Glu Phe Ala
                435   440   445

Phe Tyr Asp Asn Thr Ser Phe Gly Leu Thr Glu Ala Glu Gln Arg Met
        450   455   460

Leu Asp Leu Pro Gly Tyr Phe Gly Ser Asn Glu Glu Asp Glu Thr Thr
465   470   475   480

Ser Thr Leu Ser Val Glu Lys Leu Val Ile
                485   490

<210> 1684
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1684

```
Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val
 1               5                  10                  15

Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala
             20                  25                  30

Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu
         35                  40                  45

Gln Ala Asp Val Gly Arg Arg Arg Lys His Gln Ser Trp Trp Gln Ala
     50                  55                  60

Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys
 65                  70                  75                  80

Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys
             85                  90                  95

Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro
             100                 105                 110

His Leu Ser Leu Glu Pro Ile Gly Glu Leu Xaa Pro Val Pro Ile Val
             115                 120                 125

Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile
     130                 135                 140

Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu His Val Pro Pro Arg
145                 150                 155                 160

Lys Lys Lys Asn Phe Leu Asn Ala Lys Lys Ala Met Arg Ala Xaa Gly
             165                 170                 175

Met Asp
```

<210> 1685
<211> 200

1219

<212> PRT
<213> Homo sapiens

<400> 1685
Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val
 1   5   10   15

Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala
            20   25   30

Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu
            35   40   45

Gln Ala Asp Val Gly Arg Arg Arg Lys His Gln Ser Trp Trp Gln Ala
        50   55   60

Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys
 65   70   75   80

Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys
                85   90   95

Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro
            100   105   110

His Leu Ser Leu Glu Pro Ile Gly Glu Leu Gly Pro Val Pro Ile Val
            115   120   125

Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile
        130   135   140

Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu Thr Phe Leu Gln Glu
145   150   155   160

Lys Glu Asp Leu Phe Glu Cys Pro Lys Gly His Glu Gly Leu Gly His
                165   170   175

Gly Leu Ala Gln Gly Lys Asp Leu Arg Glu His Met Lys Arg Glu Gly
            180   185   190

Met Ile Phe Ser Cys Pro Pro Val
            195   200

<210> 1686
<211> 419
<212> PRT
<213> Homo sapiens

<400> 1686
Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala

1220

```
         1                    5                        10                       15

   Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln
               20                  25                  30

   Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg
               35                  40                  45

   Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp
           50                  55                  60

   Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu
   65                  70                  75                      80

   His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe
                   85                  90                  95

   Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn
               100                 105                 110

   Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val
               115                 120                 125

   Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met
       130                 135                 140

   Thr His Pro Gly Thr Gly Asp Ile Ile Ala Val Met Ile Thr Glu Leu
   145                 150                 155                 160

   Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln
                   165                 170                 175

   Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg
               180                 185                 190

   Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile
           195                 200                 205

   Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr
   210                 215                 220

   Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys
   225                 230                 235                 240

   Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu
                   245                 250                 255

   Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys
               260                 265                 270

   Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys
               275                 280                 285

                                    1221
```

Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys
    290   295   300

Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys
305   310   315   320

Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala
                325   330   335

Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser Leu
            340   345   350

Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln Asp
        355   360   365

Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr Lys
    370   375   380

Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr Leu
385   390   395   400

Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu Val
            405   410   415

Glu Trp Phe

<210> 1687
<211> 419
<212> PRT
<213> Homo sapiens

<400> 1687
Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala
 1   5   10   15

Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln
            20   25   30

Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg
        35   40   45

Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp
    50   55   60

Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu
65   70   75   80

His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe

Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn
            100   105   110

Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val
            115   120   125

Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met
            130   135   140

Thr His Pro Gly Thr Gly Asp Ile Ile Ala Val Met Ile Thr Glu Leu
145   150   155   160

Arg Gly Lys Asp Ile Leu Ser Tyr Leu Glu Lys Asn Ile Ser Val Gln
                165   170   175

Met Thr Ile Ala Val Gly Thr Arg Met Pro Pro Lys Asn Phe Ser Arg
            180   185   190

Gly Ser Leu Val Phe Val Ser Ile Ser Phe Ile Val Leu Met Ile Ile
            195   200   205

Ser Ser Ala Trp Leu Ile Phe Tyr Phe Ile Gln Lys Ile Arg Tyr Thr
            210   215   220

Asn Ala Arg Asp Arg Asn Gln Arg Arg Leu Gly Asp Ala Ala Lys Lys
225   230   235   240

Ala Ile Ser Lys Leu Thr Thr Arg Thr Val Lys Lys Gly Asp Lys Glu
                245   250   255

Thr Asp Pro Asp Phe Asp His Cys Ala Val Cys Ile Glu Ser Tyr Lys
                260   265   270

Gln Asn Asp Val Val Arg Ile Leu Pro Cys Lys His Val Phe His Lys
            275   280   285

Ser Cys Val Asp Pro Trp Leu Ser Glu His Cys Thr Cys Pro Met Cys
            290   295   300

Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys
305   310   315   320

Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala
                325   330   335

Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser Leu
                340   345   350

Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln Asp
            355   360   365

Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr Lys
    370   375   380

Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr Leu
385   390   395   400

Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu Val
                405   410   415

Glu Trp Phe

<210> 1688
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1688
Met Ala Phe Ser Lys Leu Leu Glu Gln Ala Gly Gly Val Gly Leu Phe
  1   5   10   15

Gln Thr Leu Gln Val Leu Thr Phe Ile Leu Pro Cys Leu Met Ile Pro
                20   25   30

Ser Gln Met Leu Leu Glu Asn Phe Ser Ala Ala Ile Pro Gly His Arg
            35   40   45

Cys Trp Thr His Met Leu Asp Asn Gly Ser Ala Val Ser Thr Asn Met
    50   55   60

Thr Pro Lys Ala Leu Leu Thr Ile Ser Ile Pro Pro Gly Pro Asn Gln
 65   70   75   80

Gly Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp Gln Leu Leu
                85   90   95

Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp Thr Glu Pro
                100   105   110

1224

```
Cys Val Asp Gly Trp Val Tyr Xaa Arg Arg Ser Ser Pro Pro Pro Ser
        115             120             125

Trp Pro Ser Gly Thr Trp Cys Ala Ala Pro Arg Leu Glu Xaa Pro
        130             135             140
```

<210> 1689
<211> 515
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1689

```
Met Ala Phe Ser Lys Leu Leu Glu Gln Ala Gly Gly Val Gly Leu Phe
 1           5               10              15

Gln Thr Leu Gln Val Leu Thr Phe Ile Leu Pro Cys Leu Met Ile Pro
                20              25              30

Ser Gln Met Leu Leu Glu Asn Phe Ser Ala Ala Ile Pro Gly His Arg
            35              40              45

Cys Trp Thr His Met Leu Asp Asn Gly Ser Ala Val Ser Thr Asn Met
    50              55              60

Thr Pro Lys Ala Leu Leu Thr Ile Ser Ile Pro Pro Gly Pro Asn Gln
 65             70              75              80

Gly Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp Gln Leu Leu
            85              90              95

Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp Thr Glu Pro
                100             105             110

Cys Val Asp Gly Trp Val Tyr Asp Arg Ser Val Phe Thr Ser Thr Ile
            115             120             125
```

1225

Val Ala Lys Trp Asp Leu Val Cys Ser Ser Gln Gly Leu Lys Pro Leu
    130   135   140

Xaa Gln Ser Ile Phe Met Xaa Gly Ile Leu Val Gly Ser Phe Ile Trp
145   150   155   160

Gly Leu Leu Ser Tyr Arg Phe Xaa Arg Lys Pro Met Leu Ser Trp Cys
              165   170   175

Cys Leu Gln Leu Ala Val Ala Gly Thr Ser Thr Ile Phe Ala Pro Thr
              180   185   190

Phe Val Ile Tyr Cys Gly Leu Arg Phe Val Ala Ala Phe Gly Met Ala
              195   200   205

Gly Ile Phe Leu Ser Ser Leu Thr Leu Met Val Glu Trp Thr Thr Thr
    210   215   220

Ser Arg Arg Ala Val Thr Met Thr Val Val Gly Cys Ala Phe Ser Ala
225   230   235   240

Gly Gln Ala Ala Leu Gly Gly Leu Ala Phe Ala Leu Arg Asp Trp Arg
              245   250   255

Thr Leu Gln Leu Ala Ala Ser Val Pro Phe Phe Ala Ile Ser Leu Ile
              260   265   270

Ser Trp Trp Leu Pro Glu Ser Ala Arg Trp Leu Ile Ile Lys Gly Lys
    275   280   285

Pro Asp Gln Ala Leu Gln Glu Leu Arg Lys Val Ala Arg Ile Asn Gly
    290   295   300

His Lys Glu Ala Lys Asn Leu Thr Ile Glu Val Leu Met Ser Ser Val
305   310   315   320

Lys Glu Glu Val Ala Ser Ala Lys Glu Pro Arg Ser Val Leu Asp Leu
              325   330   335

Phe Cys Val Pro Val Leu Arg Trp Arg Ser Cys Ala Met Leu Val Val
              340   345   350

Asn Phe Ser Leu Leu Ile Ser Tyr Tyr Gly Leu Val Phe Asp Leu Gln
              355   360   365

Ser Leu Gly Arg Asp Ile Phe Leu Leu Gln Ala Leu Phe Gly Ala Val
    370   375   380

Asp Phe Leu Gly Arg Ala Thr Thr Ala Leu Leu Leu Ser Phe Leu Gly
385   390   395   400

1226

```
Arg Arg Thr Ile Gln Ala Gly Ser Gln Ala Met Gly Gly Leu Ala Ile
                405             410             415

Leu Ala Asn Met Leu Val Pro Gln Val Arg Met Thr Ala Asp Gly Ile
                420             425             430

Leu His Thr Val Gly Arg Leu Gly Ala Met Met Gly Pro Leu Ile Leu
            435             440             445

Met Ser Arg Gln Ala Leu Pro Leu Leu Pro Pro Leu Leu Tyr Gly Val
    450             455             460

Ile Ser Ile Ala Ser Ser Leu Val Val Leu Phe Phe Leu Pro Glu Thr
465             470             475             480

Gln Gly Leu Pro Leu Pro Asp Thr Ile Gln Asp Leu Glu Ser Gln Lys
                485             490             495

Ser Thr Ala Ala Gln Gly Asn Arg Gln Glu Ala Val Thr Val Glu Ser
            500             505             510

Thr Ser Leu
        515



<210> 1690
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1690
Met Asp Trp Trp Phe Leu Ala Ile Ala Met Ala Leu Leu Trp Leu Thr
  1             5               10              15

Thr Ser Arg Lys Gln Cys Cys Ser Thr Trp Ala Leu Leu Asn Tyr Met
            20              25              30

Ala Leu Met Ile Leu Ile Gly Glu Asn Pro Asp Leu Leu Val Asn Leu
            35              40              45

Asp Ser Leu Gln Glu Pro Val Cys Val Ile Leu Val Lys Gly Leu Leu
        50              55              60

Phe Gln Arg Ile Ala Ala Asn Leu Gln Pro Leu Val Leu His His His
 65             70              75              80

Thr Ile Gln Met Met Asn Lys Lys
            85
```

1227

<210> 1691
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1691
Met Asp Trp Trp Phe Leu Ala Ile Ala Met Ala Leu Leu Trp Leu Thr
 1   5   10   15

Thr Ser Arg Lys Gln Cys Cys Ser Thr Trp Ala Leu Leu Asn Tyr Met
                20   25   30

Ala Leu Met Ile Leu Ile Gly Glu Asn Pro Asp Leu Leu Val Asn Leu
            35   40   45

Asp Ser Leu Gln Glu Pro Val Cys Val Ile Leu Val Lys Gly Leu Leu
        50   55   60

Phe Gln Arg Ile Ala Ala Asn Leu Gln Pro Leu Gln Arg Cys Gln Gly
 65   70   75   80

Ser

<210> 1692
<211> 462
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (204)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (292)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<400> 1692

```
Met Val Asp Tyr Leu Gln Lys Ala Val Leu Leu Asn Leu Gly Thr Ile
 1               5                  10                  15

Glu Leu Tyr Gly Ser Asn Asp Pro Tyr Arg Arg Glu Pro Arg Ser Pro
             20                  25                  30

Arg Lys Ser Arg Gln Pro Ser Gly Ala Gly Leu Cys Asp Ile Ser Glu
         35                  40                  45

Gly Thr Val Val Pro Glu Asp Arg Cys Lys Ser Pro Thr Ser Ala Lys
     50                  55                  60

Met Ser Arg Lys Leu Ser Leu Pro Thr Asp Leu Lys Pro Asp Leu Asp
 65                  70                  75                  80

Val Lys Asp Asn Ser Phe Ser Arg Ser Arg Ser Ser Ser Val Thr Ser
                 85                  90                  95

Ile Asp Lys Glu Ser Arg Glu Ala Ile Ser Ala Leu His Phe Cys Glu
             100                 105                 110

Thr Phe Thr Arg Lys Thr Asp Ser Ser Pro Ser Pro Cys Leu Trp Val
         115                 120                 125

Gly Thr Thr Leu Gly Thr Val Leu Val Ile Ala Leu Asn Leu Pro Pro
     130                 135                 140

Gly Gly Glu Xaa Xaa Leu Leu Gln Pro Val Ile Val Ser Pro Ser Gly
145                 150                 155                 160

Thr Ile Leu Arg Leu Lys Gly Ala Ile Leu Arg Met Ala Phe Leu Asp
             165                 170                 175

Thr Thr Gly Cys Leu Ile Pro Pro Ala Tyr Glu Pro Trp Arg Glu His
             180                 185                 190

Asn Val Pro Glu Glu Lys Asp Glu Lys Glu Lys Xaa Lys Lys Arg Arg
             195                 200                 205

Pro Val Ser Val Ser Pro Ser Ser Ser Gln Glu Ile Ser Glu Asn Gln
     210                 215                 220

Tyr Ala Val Ile Cys Ser Glu Lys Gln Ala Lys Val Ile Ser Leu Pro
225                 230                 235                 240

Thr Gln Asn Cys Ala Tyr Lys Gln Asn Ile Thr Glu Thr Ser Phe Val
             245                 250                 255
```

```
Leu Arg Gly Asp Ile Val Ala Leu Ser Asn Ser Ile Cys Leu Ala Cys
        260             265                 270

Phe Cys Ala Asn Gly His Ile Met Thr Phe Ser Leu Pro Ser Leu Arg
        275             280                 285

Pro Leu Leu Xaa Val Tyr Tyr Leu Pro Leu Thr Asn Met Arg Xaa Ala
        290             295                 300

Arg Thr Phe Cys Phe Thr Asn Asn Gly Gln Ala Leu Tyr Leu Val Ser
305             310             315                 320

Pro Thr Glu Ile Gln Arg Leu Thr Tyr Ser Gln Glu Thr Cys Glu Asn
                325             330                 335

Leu Gln Glu Met Leu Gly Glu Leu Phe Thr Pro Val Glu Thr Pro Glu
                340             345                 350

Ala Pro Asn Arg Gly Phe Phe Lys Gly Leu Phe Gly Gly Gly Ala Gln
        355             360                 365

Ser Leu Asp Arg Glu Glu Leu Phe Gly Glu Ser Ser Ser Gly Lys Ala
        370             375                 380

Ser Arg Ser Leu Ala Gln His Ile Pro Gly Pro Gly Gly Ile Glu Gly
385             390             395                 400

Val Lys Gly Ala Ala Ser Gly Val Val Gly Glu Leu Ala Arg Ala Arg
                405             410                 415

Leu Ala Leu Asp Glu Arg Gly Gln Lys Leu Gly Asp Leu Glu Glu Arg
                420             425                 430

Thr Ala Ala Met Leu Ser Ser Ala Glu Ser Phe Ser Lys His Ala His
        435             440                 445

Glu Ile Met Leu Lys Tyr Lys Asp Lys Lys Trp Tyr Gln Phe
        450             455                 460


<210> 1693
<211> 112
<212> PRT
<213> Homo sapiens

<400> 1693
Met Leu Ile Ser Gly Trp Ala Arg Trp Leu Met Pro Leu Val Pro Ala
  1             5                 10                  15

Leu Trp Glu Ala Glu Ala Gly Glu Ser Gly Val Gln Asp Gln Pro Gly
```

1230

Gln Cys Gly Glu Thr Leu Ser Leu Leu Lys Ile Lys Lys Lys Lys
            35   40   45

Lys Lys Trp Leu Ile Ser Glu Ser Tyr Ser Gly Leu Asn Ser Val Ile
        50   55   60

Gln Pro Lys Leu Ile Thr Leu Cys Tyr Leu Trp Glu Pro His Leu Lys
65   70   75   80

Ser Lys Asp Pro Asp Thr Cys Leu Ile Leu Trp Gln Gly Ser Asn Glu
            85   90   95

Ser Asn Lys Met Leu Val Lys Val Arg Thr Gly Ser Ile Leu Asn Thr
            100   105   110

<210> 1694
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1694
Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
  1   5   10   15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
            20   25   30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Xaa His Cys Ser
            35   40   45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln
        50   55   60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Xaa Lys Ser Thr Ala
65   70   75   80

Val Lys

<210> 1695
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1695

```
Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu
 1               5                  10                  15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys
                20                  25                  30

Leu Val Ala Ser Leu Pro Pro Thr Arg Cys Gln Gly His Cys Ser
            35                  40                  45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln
        50                  55                  60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala
 65                  70                  75                  80

Val Lys
```


<210> 1696
<211> 193
<212> PRT
<213> Homo sapiens

<400> 1696

```
Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr
 1               5                  10                  15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys
                20                  25                  30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gln Val
            35                  40                  45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys
        50                  55                  60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr
 65                  70                  75                  80
```

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu
                    85   90   95

Lys Pro Ala Ala Val Ala Thr Ala Met Ala Arg Val Leu Arg Glu Thr
                   100   105   110

Lys Pro Ile Pro Asn Leu Ile Phe Ala Ile Glu Gln Tyr Glu Lys Phe
                   115   120   125

Leu Ile His Leu Ser Lys Lys Ser Lys Val Asn Leu Met Gln His Met
           130   135   140

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asn Ile Leu Asp
145   150   155   160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala
                   165   170   175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys
                   180   185   190

Lys

<210> 1697
<211> 193
<212> PRT
<213> Homo sapiens

<400> 1697
Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr
  1   5   10   15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys
                    20   25   30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gln Val
                35   40   45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys
          50   55   60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr
65   70   75   80

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu
                    85   90   95

Lys Pro Ala Ala Val Ala Thr Ala Met Ala Arg Val Leu Arg Glu Thr

1233

```
                100                    105                    110

Lys Pro Ile Pro Asn Leu Ile Phe Ala Ile Glu Gln Tyr Glu Lys Phe
            115                    120                    125

Leu Ile His Leu Ser Lys Lys Ser Lys Val Asn Leu Met Gln His Met
        130                    135                    140

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asn Ile Leu Asp
145                    150                    155                    160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala
                165                    170                    175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys
                180                    185                    190

Lys
```

```
<210> 1698
<211> 22
<212> PRT
<213> Homo sapiens

<400> 1698
Met Val Cys Asp Ser Leu Pro Arg His Asp Phe His Pro Ala Arg Leu
  1                 5                    10                    15

His Pro Thr Arg Phe Leu
                20
```

```
<210> 1699
<211> 271
<212> PRT
<213> Homo sapiens

<400> 1699
Met Leu Ser Glu Lys His Leu Ile Ser Val Cys Ala Asp Asn Asn His
  1                 5                    10                    15

Val Arg Thr Trp Ser Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln
                20                    25                    30

Pro Gly Ser Thr Pro Leu Ala Ser Phe Lys Ile Leu Ala Leu Glu Ser
            35                    40                    45

Ala Asp Gly His Gly Gly Cys Ser Ala Gly Asn Asp Ile Gly Pro Tyr
```

1234

```
          50                    55                    60

Gly Glu Arg Asp Asp Gln Gln Val Phe Ile Gln Lys Val Val Pro Ser
 65              70              75                      80

Ala Ser Gln Leu Phe Val Arg Leu Ser Ser Thr Gly Gln Arg Val Cys
             85                  90                  95

Ser Val Arg Ser Val Asp Gly Ser Pro Thr Thr Ala Phe Thr Val Leu
            100             105             110

Glu Cys Glu Gly Ser Arg Arg Leu Gly Ser Arg Pro Arg Arg Tyr Leu
        115             120             125

Leu Thr Gly Gln Ala Asn Gly Ser Leu Ala Met Trp Asp Leu Thr Thr
    130             135             140

Ala Met Asp Gly Leu Gly Gln Ala Pro Ala Gly Gly Leu Thr Glu Gln
145             150             155             160

Glu Leu Met Glu Gln Leu Glu His Cys Glu Leu Ala Pro Pro Ala Pro
            165             170             175

Ser Ala Pro Ser Trp Gly Cys Leu Pro Ser Pro Ser Pro Arg Ile Ser
            180             185             190

Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser Leu Ser Gly His
            195             200             205

Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg Arg Arg Gly Gly
    210             215             220

Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg Ser Gly Pro Asp
225             230             235             240

Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser Ser Gly Leu Gly
            245             250             255

Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu Thr Ser Phe
            260             265             270



<210> 1700
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids


                         1235
```

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1700
Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
 1   5   10   15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
                20   25   30

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn
            35   40   45

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
        50   55   60

Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val
 65   70   75   80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu
                85   90   95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile
            100   105   110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp
            115   120   125

Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Ala Leu Phe Pro
    130   135   140

Leu Asn Thr Gly
145

<210> 1701
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)

1236

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1701
```
Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
 1               5               10              15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
            20              25                      30

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn
        35              40              45

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
        50              55              60

Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val
65              70              75                      80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu
            85              90                      95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile
            100             105             110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp
        115             120             125

Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Ala Leu Phe Pro
    130             135             140

Leu Asn Thr Gly
145
```

<210> 1702
<211> 408
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1702
```
Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
 1               5               10              15

Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
            20              25                      30
```

1237

Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn
        35   40   45

Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
        50   55   60 .

Ile Ile Val Ser Phe Gly Gln Lys Ser Ala Trp Ser Ser Ala Gln Val
65   70   75   80

Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu
                85   90   95

Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile
                100   105   110

His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Ser Tyr Tyr Asp
                115   120   125

Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Val Ile Val Ser
        130   135   140

Ile Glu Tyr Arg Leu Val Pro Lys Val Tyr Phe Pro Glu Gln Ile His
145   150   155   160

Asp Val Val Arg Ala Thr Lys Tyr Phe Leu Lys Pro Glu Val Leu Gln
                165   170   175

Lys Tyr Met Val Asp Pro Gly Arg Ile Cys Ile Ser Gly Asp Ser Ala
                180   185   190

Gly Gly Asn Leu Ala Ala Ala Leu Gly Gln Gln Phe Thr Gln Asp Ala
                195   200   205

Ser Leu Lys Asn Lys Leu Lys Leu Gln Ala Leu Ile Tyr Pro Xaa Leu
        210   215   220

Gln Ala Leu Asp Phe Asn Thr Pro Ser Tyr Gln Gln Asn Val Asn Thr
225   230   235   240

Pro Ile Leu Pro Arg Tyr Val Met Val Lys Tyr Trp Val Asp Tyr Phe
                245   250   255

Lys Gly Asn Tyr Asp Phe Val Gln Ala Met Ile Val Asn Asn His Thr
                260   265   270

Ser Leu Asp Val Glu Glu Ala Ala Ala Val Arg Ala Arg Leu Asn Trp
        275   280   285

Thr Ser Leu Leu Pro Ala Ser Phe Thr Lys Asn Tyr Lys Pro Val Val
        290   295   300

Gln Thr Thr Gly Asn Ala Arg Ile Val Gln Glu Leu Pro Gln Leu Leu

1238

Asp Ala Arg Ser Ala Pro Leu Ile Ala Asp Gln Ala Val Leu Gln Leu
                325   330   335

Leu Pro Lys Thr Tyr Ile Leu Thr Cys Glu His Asp Val Leu Arg Asp
                340   345   350

Asp Gly Ile Met Tyr Ala Lys Arg Leu Glu Ser Ala Gly Val Glu Val
                355   360   365

Thr Leu Asp His Phe Glu Asp Gly Phe His Gly Cys Met Ile Phe Thr
    370   375   380

Ser Trp Pro Thr Asn Phe Ser Val Gly Ile Arg Thr Arg Asn Ser Tyr
385   390   395   400

Ile Lys Trp Leu Asp Gln Asn Leu
                405

<210> 1703
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1703
Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu
  1   5   10   15

Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys
                20   25   30

Phe Leu Gly Leu Ser Asp Ser Pro Ala Leu Ala Ser Arg Val Ala Gly
            35   40   45

Thr Thr Gly Ala His His His Ala Arg Leu Val Phe Cys Ile Leu Val
        50   55   60

Glu Thr Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Pro Asp Phe
 65   70   75   80

Val Ile Cys Leu Pro Gln Thr Pro
                85

<210> 1704
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1704
Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu
1   5   10   15

Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys
                20   25   30

Phe Leu Gly Leu Ser Asp Ser Pro Ala Leu Ala Ser Arg Val Ala Gly
            35   40   45

Thr Thr Gly Ala His His His Ala Arg Leu Val Phe Cys Ile Leu Val
        50   55   60

Glu Thr Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Ser Pro Asp Phe
65   70   75   80

Val Ile Cys Leu Pro Gln Thr Pro
                85

<210> 1705
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1705
Met Ile Gly Tyr Arg Leu Cys Leu His Leu Leu Ser Leu Leu Gly Phe
1   5   10   15

Gln Pro Leu Pro Met Gly Leu Cys Arg Val Arg Glu Gln Lys Phe Lys
                20   25   30

Gln Phe Ser Gly Leu Ser His Phe Ser Phe Arg Ile Ser Pro Val Thr
            35   40   45

Phe Pro Ser Tyr Val His Ala Asp Ser Gln Pro Thr Arg Asp Lys Trp
        50   55   60

Val Pro Trp Asp Leu Ser Ser Phe Thr Cys Met Cys Ala Glu Ala Ser
65   70   75   80

Lys Ser Ala Arg Asn Val Trp Thr Ala Leu Gln Thr Pro Leu
                85   90

<210> 1706
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1706
Ser Gln His Phe Gly Arg Pro Arg Trp Lys Asp Cys Leu Lys Pro Gly
1   5   10   15

Val Arg Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Cys Lys
                20   25   30

Lys Lys Gly Ile Ile Leu Tyr Phe Leu Leu Ile Arg Phe Ile Cys Val
            35   40   45

Ser Asn Leu His Leu Gln Phe Asp Phe Phe Ser Asp Leu
        50   55   60

<210> 1707
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1707
Val Ile Phe Phe Phe Phe Phe Ser Cys Arg Glu Arg Val Cys Val Ala
1   5   10   15

Gln Ala Gly Leu Asn Phe Met Ala Ser Ser Tyr Ser Ala Ser Ala Ser
                20   25   30

Arg Ser Ala Gly Asn Ile Gly Met Ser His His Thr Gln Pro Leu Cys
            35   40   45

Leu Leu Ser Phe Ser Ile Ile Ile Asn Leu Phe Met Phe Ile His Ser
        50   55   60

Pro Val Asp Glu Xaa Leu Gly Cys Phe Gln Phe Trp Ala Val Thr Asn
65   70   75   80

Lys Ala Pro Gly Asn Ile Cys Val Gln Lys Lys Lys Lys Lys Lys Lys
                85   90   95

Lys Lys Lys Lys Lys
            100

<210> 1708
<211> 123

<212> PRT
<213> Homo sapiens

<400> 1708
Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe
 1   5   10   15

Ser His His His Val Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser
                20   25   30

Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile
            35   40   45

Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro
    50   55   60

Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala
 65   70   75   80

Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala
                85   90   95

Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg
            100   105   110

Trp Val Leu Leu Leu Ala Cys Ala Leu Leu His
        115   120

<210> 1709
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1709
Leu Pro Asn Cys Tyr Leu Xaa Asp Thr Ile Glu Gly Thr Pro Ala Gly
 1   5   10   15

Thr Gly Pro Glu Phe Ala Ala Ala Ser Thr Ser Leu Lys Glu Cys Arg
                20   25   30

Ala Val Ile Ile Ala Ser Arg Gly Gln Pro Val Trp Pro Ala Leu Leu
            35   40   45

Asp Val His Ala Val Asp Asp Phe Val Val Ser Cys Asn Leu Ala His
    50   55   60

```
Arg Arg Ala Thr Ile Pro Glu Glu Asp Cys Ser Lys Leu Leu Pro Ser
 65              70              75                      80

Phe Pro Asp His Gly Asp Pro Leu Thr Val Phe Ser Pro Ser Asn Val
             85              90                  95

Phe Asp Leu Pro Ser Glu Arg Leu Val Leu Ile Leu Gln Gln Val Leu
         100             105             110

Leu Leu Arg Gly Ile Pro Asp Pro Gln Leu Pro Arg His Ile Ser Gly
         115             120             125

Gly Asn Val Glu Ser Ala Gly Arg Ile Leu Gly His His His Leu Met
     130             135             140

Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp Val Val Asp Val Pro
145             150             155             160
```

<210> 1710
<211> 21
<212> PRT
<213> Homo sapiens

<400> 1710
```
His His His Leu Met Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp
 1               5               10              15

Val Val Asp Val Pro
             20
```

<210> 1711
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1711
```
Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe
 1               5               10              15
```

Ser His His His Val Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser
            20   25   30

Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile
            35   40   45

Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro
      50   55   60

Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala
 65   70   75   80

Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala
                85   90   95

Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg
            100   105   110

Trp Val Leu Ser Phe Gly Met Cys Ser Ser Ala Leu Val Val Phe Val
            115   120   125

Phe Gly Ala Leu Thr Glu Trp Leu Arg Phe Tyr Asn Lys Trp Leu Tyr
      130   135   140

Cys Cys Leu Trp Ile Val Asn Gly Leu Leu Gln Ser Thr Gly Trp Pro
145   150   155   160

Cys Val Xaa Ala Val Met Gly Asn Trp Phe Gly Lys Ala Gly Tyr Ala
                165   170   175

Thr Ser Phe Leu Ser Asn Phe Ser Val
            180   185

<210> 1712
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1712
Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Xaa Xaa Ile Ser

1244

```
         1                 5                      10                      15

      Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu
                  20                  25              30

      Ser Ala Ala Pro Arg Met Gln Glu Glu Pro Gly His Leu Arg Pro Ser
              35                  40                  45

      Arg Ala Arg Pro Leu Glu Gly Pro Ser Trp Asp Ser Pro Ser Leu Ala
          50                  55                  60

      Pro Pro Ala Ser Ala Gln Arg Pro Leu Pro Pro Pro Val Ser Arg Ile
      65                  70                  75                      80

      Leu Pro Ala Thr Ser Gly Arg Ala Gly Arg Trp Cys Gly Trp Ala Pro
                      85                  90                  95

      Cys Pro Lys Thr Ala Ala
                      100
```

<210> 1713
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1713
```
      Val Trp Ala Arg Trp Pro Met Leu Ser Ile Pro Ala Ala Gln Gly Gly
       1                 5                  10                  15

      Arg Leu Leu Glu Pro Lys His Ser Arg Leu Ala Trp Glu Thr Xaa Gln
                  20                  25                  30

      Asp Pro Val Ser Thr Lys Thr Phe Lys Met Ser Gln Val Ala Gly Cys
                  35                  40                  45

      Gly Gly Ser Cys Leu
          50
```

<210> 1714
<211> 173
<212> PRT
<213> Homo sapiens

<400> 1714
Met Leu Gln Pro Ala Pro Tyr Lys Pro Leu Pro Glu Val Gly Gly Leu
1   5   10   15

Leu Ser Ser Leu Leu Pro Leu Pro Leu Cys Ser Pro Gln Asp Ala Gly
                20   25   30

Gly Ala Trp Thr Pro Ser Ala Gln Ser Gly Gln Ala Ser Gly Arg Pro
            35   40   45

Phe Met Gly Leu Ser Ile Leu Gly Pro Ala Gly Leu Arg Pro Thr Ser
        50   55   60

Ser Ser Ser Ser Ser Phe Pro Tyr Pro Ser Arg His Phe Gly Gln Gly
65   70   75   80

Trp Glu Val Val Arg Met Gly Ala Met Pro Gln Asn Ser Ser Leu Ser
                85   90   95

Thr Ala Val Pro Ser Gly Met Gly Asp Gly Cys Gln Val Phe Trp Pro
            100   105   110

Pro Ala Pro Cys Arg Ser Gln Leu Ser Pro Pro Ala Ser Gly Ser Phe
        115   120   125

Pro Leu Phe Ser Pro Leu Gln Ala Pro Pro Ser Pro Ser Ser Asp Pro
        130   135   140

Ala Gln Ala Pro Gly Ser Cys Gly Ser Ser Ser Gln Pro Arg His Ala
145   150   155   160

Pro Cys Ser Pro Pro Leu Pro Leu Ala Ala Pro Ser Ser
                165   170

<210> 1715
<211> 102
<212> PRT
<213> Homo sapiens

<400> 1715
Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Pro Pro Ile Ser
1   5   10   15

Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu
                20   25   30

Ser Ala Ala Pro Arg Met Gln Glu Glu Pro Gly His Leu Arg Pro Ser
            35   40   45

Arg Ala Arg Pro Leu Glu Gly Pro Ser Trp Asp Ser Pro Ser Leu Ala

1246

Pro Pro Ala Ser Ala Gln Arg Pro Leu Pro Pro Pro Val Ser Arg Ile
 65   70   75   80

Leu Pro Ala Thr Ser Gly Arg Ala Gly Arg Trp Cys Gly Trp Ala Pro
                85   90   95

Cys Pro Lys Thr Ala Ala
            100

<210> 1716
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1716
Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp
 1   5   10   15

Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg
            20   25   30

Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val
            35   40   45

Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Gly Ala
    50   55   60

Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser
 65   70   75   80

Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser
                85   90   95

Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly
            100   105   110

Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe
            115   120   125

His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Xaa Thr Pro Pro Arg
    130   135   140

Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly

                               1247

Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu
                165   170   175

Glu Val Leu Gly
                180

<210> 1717
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1717
Glu Ala Lys Gly Thr Ala Met Gln Arg Pro Trp Gly Arg Thr Ala Pro
  1   5   10   15

Gly Met Arg Glu Glu Gln Ser Xaa Glu Arg Arg Ala Gly Arg Ala Gly
                20   25   30

Pro Cys Gly Pro Gln Gly Gly Leu Gly His Leu Pro Arg Gly Ser Gly
                35   40   45

Ala Pro Gly Cys Val Ser Arg Trp Glu Arg Gln Gly Arg Ile Cys Gly
        50   55   60

Asp Leu Thr Arg Ala Gly Glu Ala Glu Thr Arg Val Gln Pro Pro Pro
 65   70   75   80

Pro Lys Ala Gly Pro Ser Gln Arg Arg Gly Arg Ala Gly Gln Glu Val
                85   90   95

Ser Gly Cys Leu Leu Gly Leu Val Trp Phe Cys Phe Val Leu Phe Ile
                100   105   110

Val Val Lys Tyr Lys Ile Tyr Arg Leu Xaa Xaa Lys Lys Lys Lys Lys
        115   120   125

Gly Arg Pro
    130

<210> 1718
<211> 180
<212> PRT
<213> Homo sapiens

<400> 1718
Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp
 1   5   10   15

Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg
            20   25   30

Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val
        35   40   45

Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Gly Ala
    50   55   60

Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser
 65   70   75   80

Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser
                85   90   95

Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly
            100   105   110

Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe
            115   120   125

His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Glu Thr Pro Pro Arg
    130   135   140

Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly
145   150   155   160

Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu
                165   170   175

Glu Val Leu Gly
        180

<210> 1719
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids '

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1719
Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
 1   5   10   15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
                20   25   30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
                35   40   45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
         50   55   60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
 65   70   75   80

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr

1250

Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu
            100   105   110

Ala Tyr Ala Ile Gln Asn Val Xaa Phe Asp Ile Xaa Ile Xaa Ser Leu
            115   120   125

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
        130   135   140

Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
145   150   155   160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn
                165   170   175

Phe

<210> 1720
<211> 447
<212> PRT
<213> Homo sapiens

<400> 1720
Thr Thr Thr Lys Phe Ala Ala Ala Ser Thr Phe His Pro Ala Ser Lys
  1   5   10   15

Ser Asn Ile Lys Lys Val Trp Met Ala Glu Gln Lys Ile Ser Tyr Asp
            20   25   30

Lys Lys Lys Gln Glu Glu Leu Met Gln Gln Tyr Leu Lys Glu Gln Glu
        35   40   45

Ser Tyr Asp Asn Arg Leu Leu Met Gly Asp Glu Arg Val Lys Asn Gly
    50   55   60

Leu Asn Phe Met Tyr Glu Ala Pro Pro Gly Ala Lys Lys Glu Asn Lys
65   70   75   80

Glu Lys Glu Glu Thr Glu Gly Glu Thr Glu Tyr Lys Phe Glu Trp Gln
                85   90   95

Lys Gly Ala Pro Arg Glu Lys Tyr Ala Lys Asp Asp Met Asn Ile Arg
            100   105   110

Asp Gln Pro Phe Gly Ile Gln Val Arg Asn Val Arg Cys Ile Lys Cys
            115   120   125

His Lys Trp Gly His Val Asn Thr Asp Arg Glu Cys Pro Leu Phe Gly
    130   135   140

Leu Ser Gly Ile Asn Ala Ser Ser Val Pro Thr Asp Gly Ser Gly Pro
145   150   155   160

Ser Met His Pro Ser Glu Leu Ile Ala Glu Met Arg Asn Ser Gly Phe
                165   170   175

Ala Leu Lys Arg Asn Val Leu Gly Arg Asn Leu Thr Ala Asn Asp Pro
                180   185   190

Ser Gln Glu Tyr Val Ala Ser Glu Gly Glu Glu Asp Pro Glu Val Glu
                195   200   205

Phe Leu Lys Ser Leu Thr Thr Lys Gln Lys Gln Lys Leu Leu Arg Lys
    210   215   220

Leu Asp Arg Leu Glu Lys Lys Lys Lys Lys Lys Asp Arg Lys Lys Lys
225   230   235   240

Lys Phe Gln Lys Ser Arg Ser Lys His Lys Lys His Lys Ser Ser Ser
                245   250   255

Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Thr Glu Thr Ser Glu
                260   265   270

Ser Ser Ser Glu Ser Glu Ser Asn Asn Lys Glu Lys Lys Ile Gln Arg
                275   280   285

Lys Lys Arg Lys Lys Asn Lys Cys Ser Gly His Asn Asn Ser Asp Ser
    290   295   300

Glu Glu Lys Asp Lys Ser Lys Lys Arg Lys Leu His Glu Glu Leu Ser
305   310   315   320

Ser Ser His His Asn Arg Glu Lys Ala Lys Glu Lys Pro Arg Phe Leu
                325   330   335

Lys His Glu Ser Ser Arg Glu Asp Ser Lys Trp Ser His Ser Asp Ser
                340   345   350

Asp Lys Lys Ser Arg Thr His Lys His Ser Pro Glu Lys Arg Gly Ser
    355   360   365

Glu Arg Lys Glu Gly Ser Ser Arg Ser His Gly Arg Glu Glu Arg Ser
    370   375   380

Arg Arg Ser Arg Ser Arg Ser Pro Gly Ser Tyr Lys Gln Arg Glu Thr
385   390   395   400

Arg Lys Arg Ala Gln Arg Asn Pro Gly Glu Glu Gln Ser Arg Arg Asn

1252

Asp Ser Arg Ser His Gly Thr Asp Leu Tyr Arg Gly Glu Lys Met Tyr
            420   425   430

Arg Glu His Pro Gly Gly Thr His Thr Lys Val Thr Gln Arg Glu
        435   440   445

<210> 1721
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1721
Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
 1   5   10   15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
            20   25   30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
            35   40   45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
     50   55   60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
65   70   75   80

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr
             85   90   95

Val Xaa Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu
         100   105   110

Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu
         115   120   125

Ile Ser Leu Ile Trp Xaa Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
     130   135   140

Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
145   150   155   160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn
             165   170   175

Phe

<210> 1722
<211> 227
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1722
Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
  1   5   10   15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
             20   25   30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
         35   40   45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
     50   55   60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
65   70   75   80

1254

```
Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr
            85                  90                  95

Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu
            100                 105                 110

Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu
            115                 120                 125

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
    130                 135                 140

Lys Gln Leu Pro His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
145                 150                 155                 160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Val Lys Glu Lys Asn
            165                 170                 175

Phe Val Gly Gln Ile Leu Val Phe Val Leu Leu Tyr Ser Ser Leu Tyr
            180                 185                 190

Ser Thr Tyr Leu Trp Thr Gly Leu Leu Ala Ile Ser Leu Phe Leu Leu
            195                 200                 205

Lys Lys Arg Glu Arg Val Gln Ile Pro Val Gly Ile Ile Ile Ile Ser
    210                 215                 220

Gly Trp Gly
225
```

<210> 1723
<211> 227
<212> PRT
<213> Homo sapiens

<400> 1723
```
Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu
  1             5                 10                  15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg
            20                  25                  30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr
            35                  40                  45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro
    50                  55                  60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile
```

```
         65                      70                      75                      80

      Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr
                      85                      90                      95


      Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu
               .        100                 105                 110


      Ala Tyr Ala Ile Gln Asn Val Ser Phe Asp Ile Ser Ile Val Ser Leu
                  115             .       120                 125       .


      Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr
          130                 135                 140


      Lys Gln Leu Pro His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser
      145                 150                 155                 160


      Ile Val Cys Ala Gly Met Met Ile Trp Asn Phe Val Lys Glu Lys Asn
                      165                 170                 175


      Phe Val Gly Gln Ile Leu Val Phe Val Leu Leu Tyr Ser Ser Leu Tyr
                  180                 185                 190


      Ser Thr Tyr Leu Trp Thr Gly Leu Leu Ala Ile Ser Leu Phe Leu Leu
              195             .       200                 205            .


      Lys Lys Arg Glu Arg Val Gln Ile Pro Val Gly Ile Ile Ile Ile Ser
          210                 215                 220


      Gly Trp Gly
      225




      <210> 1724
      <211> 87
      <212> PRT
      <213> Homo sapiens


      <220>
      <221> SITE
      <222> (61)
      <223> Xaa equals any of the naturally occurring L-amino acids


      <220>
      <221> SITE
      <222> (82)
      <223> Xaa equals any of the naturally occurring L-amino acids


      <400> 1724
      Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly
        1               5                  10                  15
```

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly
            20   25   30

Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser
            35   40   45

Pro Asp Gly Pro Ala Ser Pro Thr Phe Gly Ala Arg Xaa Pro Ala Trp
        50   55   60

Gly Gly Ile Arg Ala Val Val Ala Cys Asn Arg Arg Gly Thr Gly Gln
  65   70   75   80

Arg Xaa Thr Arg Ala Lys Leu
                85

<210> 1725
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1725
Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly
  1   5   10   15

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly
            20   25   30

Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser
            35   40   45

Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly
        50   55   60

Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala

```
Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly
                85                    90                    95

Pro Ala Asn Trp Gly Tyr Val Leu Gly Arg Pro Gly Arg Gly Pro Asp
            100                   105                   110

Glu Tyr Xaa Glu Ala Ala Thr Ala Ala Pro Xaa Leu Arg Asn Leu Arg
            115                   120                   125

Ala Arg Cys Pro Glu Leu Ala Arg Gly Met Val Xaa Phe Trp Ala Thr
        130                   135                   140

Thr Leu
145
```

<210> 1726
<211> 405
<212> PRT
<213> Homo sapiens

<400> 1726
```
Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly
 1               5                   10                   15

Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly
            20                   25                   30

Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser
        35                   40                   45

Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly
    50                   55                   60

Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala
65                   70                   75                   80

Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly
                85                   90                   95

Pro Ala Asn Trp Gly Tyr Val Leu Gly Gly Arg Gly Arg Gly Pro Asp
            100                   105                   110

Glu Tyr Glu Lys Arg Tyr Ser Gly Ala Phe Pro Pro Gln Leu Arg Ala
            115                   120                   125

Gln Met Arg Asp Leu Ala Arg Gly Met Phe Val Phe Gly Tyr Asp Asn
        130                   135                   140
```

```
Tyr Met Ala His Ala Phe Pro Gln Asp Glu Leu Asn Pro Ile His Cys
145             150             155             160

Arg Gly Arg Gly Pro Asp Arg Gly Asp Pro Ser Asn Leu Asn Ile Asn
            165             170             175

Asp Val Leu Gly Asn Tyr Ser Leu Thr Leu Val Asp Ala Leu Asp Thr
            180             185             190

Leu Ala Ile Met Gly Asn Ser Ser Glu Phe Gln Lys Ala Val Lys Leu
            195             200             205

Val Ile Asn Thr Val Ser Phe Asp Lys Asp Ser Thr Val Gln Val Phe
    210             215             220

Glu Ala Thr Ile Arg Val Leu Gly Ser Leu Leu Ser Ala His Arg Ile
225             230             235             240

Ile Thr Asp Ser Lys Gln Pro Phe Gly Asp Met Thr Ile Lys Asp Tyr
            245             250             255

Asp Asn Glu Leu Leu Tyr Met Ala His Asp Leu Ala Val Arg Leu Leu
            260             265             270

Pro Ala Phe Glu Asn Thr Lys Thr Gly Ile Pro Tyr Pro Arg Val Asn
            275             280             285

Leu Lys Thr Gly Val Pro Pro Asp Thr Asn Asn Glu Thr Cys Thr Ala
    290             295             300

Gly Ala Gly Ser Leu Leu Val Glu Phe Gly Ile Leu Ser Arg Leu Leu
305             310             315             320

Gly Asp Ser Thr Phe Glu Trp Val Ala Arg Arg Ala Val Lys Ala Leu
            325             330             335

Trp Asn Leu Arg Ser Asn Asp Thr Gly Leu Leu Gly Val Ala Pro Phe
            340             345             350

Leu Ala Ile Gly Thr Ala His Cys Leu Val Pro Phe Ser Phe His Leu
            355             360             365

Leu Trp Ala Leu Pro Pro Phe Tyr Ser Ser Thr Gln Leu Thr Thr Gln
    370             375             380

Gln Glu Leu Cys Gln Leu Tyr Leu Ile Ser Leu Cys Asp Pro Leu Gln
385             390             395             400

Arg Gly Cys Met Val
            405
```

<210> 1727
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1727
Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly
 1   5   10   15

Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val
                20   25   30

Ala Ala Gly Ser Ala Ser Val Trp Gly Ser Ala Gly Met Thr Trp Pro
                35   40   45

Leu Ser Ala Cys Gly Pro Leu Ser Ser Met Met Val Ser Gly Phe Gln
        50   55   60

Ala Ser Lys Pro Gln Cys Thr Ser Ile Tyr Pro Ala Phe Ala Cys Ile
 65   70   75   80

Ala Leu Ala His Val Ser Leu Ala Lys Thr Asp His Val Ala Lys Leu
                85   90   95

Arg Val Ser Val Gly Arg Val Tyr Thr Ser Ala Trp Ile Leu Lys Gly
                100   105   110

Met Ile His Xaa Gly Pro Leu Xaa
                115   120

<210> 1728
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

1260

<400> 1728
Lys Tyr Ser Tyr Cys Ser His Leu His Phe Xaa Met Asn Glu Ser Ala
 1   5   10   15

Leu Phe Cys Ser Asn Phe His Trp Lys Pro Val Gly Ser Glu Arg Leu
                20   25   30

Trp Pro Pro Leu Ile Ile Tyr Asp Leu Lys Pro Ala Cys Asn Arg Glu
            35   40   45

Pro Leu Gln Ser Leu
        50

<210> 1729
<211> 120
<212> PRT
<213> Homo sapiens

<400> 1729
Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly
 1   5   10   15

Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val
                20   25   30

Ala Ala Gly Ser Ala Ser Val Trp Gly Ser Ala Gly Met Thr Trp Pro
            35   40   45

Leu Ser Ala Cys Gly Pro Leu Ser Ser Met Met Val Ser Gly Phe Gln
        50   55   60

Ala Ser Lys Pro Gln Cys Thr Ser Ile Tyr Pro Ala Phe Ala Cys Ile
 65   70   75   80

Ala Leu Ala His Val Ser Leu Ala Lys Thr Asp His Val Ala Lys Leu
                85   90   95

Arg Val Ser Val Gly Arg Val Tyr Thr Ser Ala Trp Ile Leu Lys Gly
            100   105   110

Met Ile His Trp Gly Pro Leu Leu
            115   120

<210> 1730
<211> 485
<212> PRT
<213> Homo sapiens

1261

<400> 1730

```
Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp
 1               5                   10                  15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu
                20                  25                  30

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys
                35                  40                  45

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu
        50                  55                  60

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile
65                  70                  75                  80

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala
                85                  90                  95

Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr
                100                 105                 110

Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe
        115                 120                 125

Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe
        130                 135                 140

Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met
145                 150                 155                 160

Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro
                165                 170                 175

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
                180                 185                 190

Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met
        195                 200                 205

Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp
        210                 215                 220

Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu
225                 230                 235                 240

Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser
                245                 250                 255

Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr
                260                 265                 270
```

1262

```
Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu
        275                 280                 285

Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu
        290                 295                 300

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr
305                 310                 315                 320

Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp
                325                 330                 335

Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly
            340                 345                 350

Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu
            355                 360                 365

Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile
        370                 375                 380

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala
385                 390                 395                 400

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala
            405                 410                 415

Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg
            420                 425                 430

His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val
            435                 440                 445

Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr
        450                 455                 460

Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala
465                 470                 475                 480

Arg Arg His Arg Ser
                485


<210> 1731
<211> 485
<212> PRT
<213> Homo sapiens

<400> 1731
Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp
```

1263

```
1                  5                      10                      15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu
            20                      25                      30

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys
            35                      40                      45

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu
        50                      55                      60

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile
65                      70                      75                      80

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala
                85                      90                      95

Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr
            100                     105                     110

Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe
            115                     120                     125

Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe
        130                     135                     140

Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met
145                     150                     155                     160

Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro
                165                     170                     175

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
            180                     185                     190

Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met
            195                     200                     205

Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp
        210                     215                     220

Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu
225                     230                     235                     240

Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser
                245                     250                     255

Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr
            260                     265                     270

Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu
            275                     280                     285

                            1264
```

Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu
    290   295   300

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr
305   310   315   320

Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp
            325   330   335

Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly
        340   345   350

Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu
        355   360   365

Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile
    370   375   380

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala
385   390   395   400

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala
            405   410   415

Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg
        420   425   430

His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val
        435   440   445

Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr
    450   455   460

Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala
465   470   475   480

Arg Arg His Arg Ser
            485

<210> 1732
<211> 485
<212> PRT
<213> Homo sapiens

<400> 1732
Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp
  1   5   10   15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu

1265

```
                20                      25                      30

    Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys
            35              40                  45

    Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu
        50                  55                  60

    Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile
    65                  70                  75                      80

    Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala
                85                  90                      95

    Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr
                100             105                 110

    Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe
            115                 120                 125

    Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe
        130                 135                 140

    Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met
    145                 150                 155                 160

    Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro
                165                 170                 175

    Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
                180                 185                 190

    Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met
                195                 200                 205

    Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp
        210                 215                 220

    Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu
    225                 230                 235                 240

    Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser
                245                 250                 255

    Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr
                260                 265                 270

    Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu
                275                 280                 285

    Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu
        290                 295                 300

                                1266
```

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr
305   310   315   320

Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp
                325   330   335

Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly
            340   345   350

Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu
            355   360   365

Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile
    370   375   380

Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala
385   390   395   400

Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala
            405   410   415

Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg
            420   425   430

His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val
            435   440   445

Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr
    450   455   460

Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala
465   470   475   480

Arg Arg His Arg Ser
                485

<210> 1733
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1733
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr
 1   5   10   15

Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val
                20   25   30

Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp

1267

Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu
    50   55   60

Met
 65

<210> 1734
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1734
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr
 1   5   10   15

Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val
              20   25   30

Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp
          35   40   45

Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu
    50   55   60

Met
 65

<210> 1735
<211> 342
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (271)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1735
Met Trp Thr Ala Leu Val Leu Ile Trp Ile Phe Ser Leu Ser Leu Ser
 1   5   10   15

Glu Ser His Ala Ala Ser Asn Asp Pro Arg Asn Phe Val Pro Asn Lys
            20   25   30

Met Trp Lys Gly Leu Val Lys Arg Asn Ala Ser Val Glu Thr Val Asp
            35   40   45

Asn Lys Thr Ser Glu Asp Val Thr Met Ala Ala Ala Ser Pro Val Thr
        50   55   60

Leu Thr Lys Gly Thr Ser Ala Ala His Leu Asn Ser Met Glu Val Thr
    65   70   75   80

Thr Glu Asp Thr Ser Arg Thr Asp Val Ser Glu Pro Ala Thr Ser Gly
                85   90   95

Gly Ala Ala Asp Gly Val Thr Ser Ile Ala Pro Thr Ala Val Ala Ser
            100   105   110

Ser Thr Thr Ala Ala Ser Ile Thr Thr Ala Ala Ser Ser Met Thr Val
        115   120   125

Ala Ser Ser Ala Pro Thr Thr Ala Ala Ser Ser Thr Thr Val Ala Ser
        130   135   140

Ile Ala Pro Thr Thr Xaa Ala Ser Ser Met Thr Ala Ala Ser Ser Thr
145   150   155   160

Pro Met Thr Leu Ala Leu Pro Ala Pro Thr Ser Thr Ser Thr Gly Arg
                165   170   175

Thr Pro Ser Thr Thr Ala Thr Gly His Pro Ser Leu Ser Thr Ala Leu
                180   185   190

Ala Gln Val Pro Lys Ser Ser Ala Leu Pro Arg Thr Ala Thr Leu Ala
            195   200   205

Thr Leu Ala Thr Arg Ala Gln Thr Val Ala Thr Thr Ala Asn Thr Ser
    210   215   220

Ser Pro Met Ser Thr Arg Pro Ser Pro Ser Lys His Met Pro Ser Asp
225   230   235   240

Thr Ala Ala Ser Pro Val Pro Pro Met Arg Pro Gln Ala Gln Gly Pro
                245   250   255

Ile Ser Gln Val Ser Val Asp Gln Pro Val Val Asn Thr Thr Xaa Lys
            260   265   270

Ser Thr Pro Met Pro Ser Asn Thr Thr Thr Glu Pro Leu Thr Gln Ala
            275   280   285

Val Val Asp Lys Thr Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr

1269

```
          290                    295                    300

Leu Phe Ile Thr Val Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser
305                    310                315                    320

Tyr Lys Lys Lys Asp Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met
                    325                330                335

Tyr Ala Asp Ser Glu Met
              340


<210> 1736
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1736
Met Thr Leu Pro Thr Ser Gln Cys Leu Ile Cys Leu Leu Gln Ala Leu
  1               5                  10                  15

Cys Gly Ile Gly His Gly Ala Leu Ala Trp Gly Ser Asn Gln Val Leu
                 20                  25                  30

Phe Pro Gly Gly Gln Gln Glu Asp Gly Gly Cys Gln Arg Ile Pro Asp
              35                  40                  45

Pro Ser Phe Leu Ser Thr Pro Cys Gly Lys Gln Gly Gly His Ala Glu
     50                  55                  60

Gln Glu Leu Gln Gln Cys Trp Gly Ala Phe Xaa Gln Leu Pro Gly Cys
 65                  70                  75                    80

Val Leu His Phe His Pro Gly Val Leu His Lys Ala His Ser Glu Trp
                 85                  90                  95


<210> 1737
<211> 79
<212> PRT
<213> Homo sapiens


                              1270
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<400> 1737
Gly Leu Gly Pro Gly Ile Pro Met Cys Phe Gln Gln Trp Thr Thr Cys
  1   5   10   15

Ser Glu Val Leu Val Cys Ala Ser Pro Val Ser Val Val Asp Lys Thr
              20   25   30

Asp Gly Arg Phe Arg Gly Ser Thr Pro His Thr Cys Lys Leu Asp Arg
          35   40   45

Ala Gln Lys Leu Val Lys Asp Ile Trp Arg Cys Cys Ala Gly Gln Phe
      50   55   60

Ala Pro Leu Ser Leu Arg Ser Met Val Phe His Asn Ala Pro Ile
 65   70   75

<210> 1738
<211> 96
<212> PRT
<213> Homo sapiens

<400> 1738
Met Thr Leu Pro Thr Ser Gln Cys Leu Ile Cys Leu Leu Gln Ala Leu
  1   5   10   15

Cys Gly Ile Gly His Gly Ala Leu Ala Trp Gly Ser Asn Gln Val Leu
              20   25   30

Phe Pro Gly Gly Gln Gln Glu Asp Gly Gly Cys Gln Arg Ile Pro Asp
          35   40   45

Pro Ser Phe Leu Ser Thr Pro Cys Gly Lys Gln Gly Gly His Ala Glu
      50   55   60

Gln Glu Leu Gln Gln Cys Trp Gly Ala Phe Cys Gln Leu Pro Gly Cys
 65   70   75   80

Val Leu His Phe His Pro Gly Val Leu His Lys Ala His Ser Glu Trp
              85   90   95

<210> 1739
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1739
Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val
 1   5   10   15

Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys
            20   25   30

Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu
        35   40   45

Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly
    50   55   60

Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe
 65   70   75   80

Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln
            85   90   95

Pro Pro Glu Pro Pro Ser Pro Trp Ser Asp Ile Arg Asn Ala Thr Gln
            100   105   110

Phe Ala Pro Val Cys Pro Gln Asn Ile Ile Asp Gly Arg Leu Pro Glu
        115   120   125

Val Met Leu Pro Val Xaa Phe Thr Asn Asn Leu Asp Val Xaa Ser Ser
    130   135   140

Tyr Val Gln Asp Gln Ser Glu Arg Leu Xaa Ile Phe Lys Tyr Ile Cys
145   150   155   160

Xaa Asp

1272

<210> 1740
<211> 228
<212> PRT
<213> Homo sapiens

<400> 1740
```
Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val
 1               5                  10                  15

Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys
            20                  25                  30

Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu
        35                  40                  45

Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly
    50                  55                  60

Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe
 65                  70                  75                  80

Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln
                85                  90                  95

Pro Pro Glu Pro Pro Ser Pro Trp Ser Asp Ile Arg Asn Ala Thr Gln
            100                 105                 110

Phe Ala Pro Val Cys Pro Gln Asn Ile Ile Asp Gly Arg Leu Pro Glu
        115                 120                 125

Val Met Leu Pro Val Trp Phe Thr Asn Asn Leu Asp Val Val Ser Ser
    130                 135                 140

Tyr Val Gln Asp Gln Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Val
145                 150                 155                 160

Pro Thr Glu Asp Asp Ile Arg Asp Ser Gly Gly Pro Lys Pro Val Met
                165                 170                 175

Val Tyr Ile His Gly Gly Ser Tyr Met Glu Gly Thr Gly Asn Leu Tyr
            180                 185                 190

Asp Gly Ser Val Leu Ala Ser Tyr Gly Asn Val Ile Val Ile Thr Val
        195                 200                 205

Asn Tyr Arg Leu Gly Val Leu Gly Lys Lys Ser Leu Ser Phe Val Phe
    210                 215                 220
```

1273

Thr Met Asn Pro
225

<210> 1741
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1741
Met Leu Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Leu Pro
 1   5   10   15

Lys Ile Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser
                20   25   30

Arg Ala His Phe Pro Arg Ala Trp Arg Leu Asp Pro Gly Glu Phe Leu
            35   40   45

His Pro Leu Gln Asp Pro His Ser Ser Pro Leu Trp Ser Leu Asp His
        50   55   60

Arg Trp Arg Trp Pro Glu Leu Thr Cys Trp Leu Trp Gly His Ser Ser
65   70   75   80

Cys Trp Pro Arg Met Arg Arg Gly Thr Arg Glu Tyr Lys Gly
                85   90

<210> 1742
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1742
Met Leu Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Leu Pro
 1   5   10   15

Lys Ile Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser
                20   25   30

Arg Ala His Phe Pro Arg Ala Trp Arg Leu Asp Pro Gly Glu Phe Leu
            35   40   45

His Pro Leu Gln Asp Pro His Ser Ser Pro Leu Trp Ser Leu Asp His
        50   55   60

Arg Trp Arg Trp Pro Glu Leu Thr Cys Trp Leu Trp Gly His Ser Ser
65   70   75   80

Cys Trp Pro Arg Met Arg Arg Gly Thr Arg Glu Tyr Lys Gly
                     85   90

<210> 1743
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1743
Met Arg Thr Asp Tyr Pro Arg Xaa Xaa Arg Ser Cys Leu Cys Val Ser
  1   5   10   15

Leu Ser Pro Pro Leu Val Ser Lys Gly Ser His Arg Ser Arg Trp Leu
            20   25   30

Arg Thr Met Ala Val Pro Ala Gly Thr Gln Val Trp Arg Gln Asp Leu
         35   40   45

Gln Pro Leu Gly Ala Val Leu Leu Gln
     50   55

<210> 1744
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1744
Met Arg Thr Asp Tyr Pro Arg Ser Val Leu Ala Pro Ala Tyr Val Ser
  1   5   10   15

Val Cys Leu Leu Leu Leu Cys Pro Arg Glu Val Ile Ala Pro Ala Gly
            20   25   30

Ser Glu Pro Trp Leu Cys Gln Pro Ala Pro Arg Cys Gly Asp Lys Ile
         35   40   45

Tyr Asn Pro Leu Glu Gln Cys Cys Tyr Asn Asp Ala Ile Val Ser Leu
     50   55   60

1275

Ser Glu Thr Arg Gln Cys Gly Pro Pro Cys Thr Phe Trp Pro Cys Phe
65   70   75   80

Glu Leu Cys Cys Leu Asp Ser Phe Gly Leu Thr Asn Asp Phe Val Val
            85   90   95

Lys Leu Lys Val Gln Gly Val Asn Ser Gln Cys His Ser Ser Pro Ile
        100   105   110

Ser Ser Lys Cys Glu Ser Arg Arg Arg Phe Pro
        115   120

<210> 1745
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1745
Met His Pro Leu Pro Cys Leu His Leu Trp Glu Phe Phe Leu Ser Glu
 1   5   10   15

Trp Gly Gln Phe Leu Ala Gln Gly Ser Glu Leu Arg Gln Pro Gln Gly
            20   25   30

Arg Gly Pro Tyr Leu Leu Ser Ser Val Leu Gly Tyr Arg Glu Gln Pro
            35   40   45

Gly Asp Ser Leu Val Pro Pro Pro Trp Arg Val Ser Leu Thr His Ser
    50   55   60

Pro Ser Leu Arg Ala Ser Trp Pro Thr Ala Ser Leu Trp Glu Ser Gly
65   70   75   80

Arg Arg Ala Arg Trp Val Ala Gly Ala Arg Leu Leu Ser Pro Pro Pro
            85   90   95

Ala Asp Phe Leu Leu Leu Pro Leu Ile Pro Phe
            100   105

<210> 1746
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1746
Met His Pro Leu Pro Cys Leu His Leu Trp Glu Phe Phe Leu Ser Glu
 1   5   10   15

1276

```
Trp Gly Gln Phe Leu Ala Gln Gly Ser Glu Leu Arg Gln Pro Gln Gly
            20                  25                  30

Arg Gly Pro Tyr Leu Leu Ser Ser Val Leu Gly Tyr Arg Glu Gln Pro
            35                  40                  45

Gly Asp Ser Leu Val Pro Pro Pro Trp Arg Val Ser Leu Thr His Ser
        50                  55                  60

Pro Ser Leu Arg Ala Ser Trp Pro Thr Ala Ser Leu Trp Glu Ser Gly
65                  70                  75                      80

Arg Arg Ala Arg Trp Val Ala Gly Ala Arg Leu Leu Ser Pro Pro Pro
                85                  90                  95

Ala Asp Phe Leu Leu Leu Pro Leu Ile Pro Phe
            100                 105


<210> 1747
<211> 120
<212> PRT
<213> Homo sapiens

<400> 1747
Met Ala Gly Tyr Gln Lys His His Gly Ser Phe Ala Ile Cys Cys Leu
  1               5                  10                  15

Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu
            20                  25                  30

Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys
            35                  40                  45

Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn
        50                  55                  60

Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly
65                  70                  75                      80

Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala
                85                  90                  95

Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr
            100                 105                 110

Cys Phe Pro Ala Phe Gln Arg Trp
            115                 120
```

1277

<210> 1748
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1748
Asp Val Leu Gln Ile Thr Phe Trp Trp Pro Leu Val Thr Ala Val Ser
 1   5   10   15

Leu Gln Gly Leu Asn Lys Xaa Leu Ser Pro Ile Pro Phe His Thr Cys
            20   25   30

Val Val Tyr Tyr Trp Gln Ala Ser Val Leu Arg Val Ser Asn Gly Thr
            35   40   45

Asp Gly Cys Gln Thr Leu Trp Ile Ser Ala Ser Pro Gly Trp
        50   55   60

<210> 1749
<211> 120
<212> PRT
<213> Homo sapiens

<400> 1749
Met Ala Gly Tyr Gln Lys His His Gly Ser Phe Ala Ile Cys Cys Leu
 1   5   10   15

Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu
            20   25   30

Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys
            35   40   45

Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn
        50   55   60

Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly
 65   70   75   80

Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala
                85   90   95

Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr
            100   105   110

1278

Cys Phe Pro Ala Phe Gln Arg Trp
          115   120

<210> 1750
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1750
Met Asp Asp Phe Leu Phe Ser Val Ser Ile Leu Ser Gly Ile Leu Cys
  1   5   10   15

Ser Ile Leu Ala Val Leu Lys Phe Met Leu Gly Lys Val Leu Thr Ser
              20   25   30

Arg Ala Leu Ile Thr Asp Gly Phe Asn Ser Leu Val Gly Gly Val Met
              35   40   45

Gly Phe Ser Ile Leu Leu Ser Ala Glu Val Phe Lys His Asp Ser Ala
      50   55   60

Val Trp Tyr Leu Asp Gly Ser Ile Gly Val Leu Ile Gly Leu Thr Ile
 65   70   75   80

Phe Ala Tyr Gly Val Lys Leu Leu Ile Asp Met Val Pro Arg Val Arg
                  85   90   95

Gln Thr Arg His Tyr Glu Met Phe Glu
              100   105

<210> 1751
<211> 186
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1751
Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile

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     1                   5                        10                         15

Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu
                20                      25                 30

Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
            35                  40                  45

Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val
        50                  55                  60

Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg
65                      70                  75                  80

Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn
                85                  90                  95

Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu
            100                 105                 110

Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys
        115                 120                 125

Gly Gln Lys Leu His Val Ser Arg Gln Xaa Ser Trp Leu Gly Asp Ile
    130                 135                 140

Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr
145                 150                 155                 160

Phe Leu Ser Ile Leu Xaa Ser Leu Trp Ile Val Met Ser Leu Asn Val
                165                 170                 175

Ser Leu Leu Leu Pro Leu Ala Leu His Ser
            180                 185


<210> 1752
<211> 224
<212> PRT
<213> Homo sapiens

<400> 1752
Val Leu Ser Leu Ile Ile Phe Leu Thr Thr Leu Phe Tyr Leu Leu Ser
  1                 5                   10                  15

Ser Ser Asp Glu Tyr Tyr Lys Pro Val Lys Trp Val Ile Ser Leu Thr
            20                  25                  30

Pro Leu Ser Gln Pro Gly Pro Ser Ser Asn Ile Ile Gly Gln Ser Val
            35                  40                  45
```

1280

Glu Glu Ala Ile Arg Gly Val Phe Asp Ala Ser Leu Lys Met Ala Gly
    50   55   60

Phe Tyr Gly Leu Tyr Thr Trp Leu Thr His Thr Met Phe Gly Ile Asn
 65   70   75   80

Ile Val Phe Ile Pro Ser Ala Leu Ala Ala Ile Leu Gly Ala Val Pro
                85   90   95

Phe Leu Gly Thr Tyr Trp Ala Ala Val Pro Ala Val Leu Asp Leu Trp
             100   105   110

Leu Thr Gln Gly Leu Gly Cys Lys Ala Ile Leu Leu Leu Ile Phe His
         115   120   125

Leu Leu Pro Thr Tyr Phe Val Asp Thr Ala Ile Tyr Ser Asp Ile Ser
     130   135   140

Gly Gly Gly His Pro Tyr Leu Thr Gly Leu Ala Val Ala Gly Gly Ala
145   150   155   160

Tyr Tyr Leu Gly Leu Glu Gly Ala Ile Ile Gly Pro Ile Leu Leu Cys
             165   170   175

Ile Leu Val Val Ala Ser Asn Ile Tyr Ser Ala Met Leu Val Ser Pro
             180   185   190

Thr Asn Ser Val Pro Thr Pro Asn Gln Thr Pro Trp Pro Ala Gln Pro
         195   200   205

Gln Arg Thr Phe Arg Asp Ile Ser Glu Asp Leu Lys Ser Ser Val Gly
    210   215   220

<210> 1753
<211> 424
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753
Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile
 1   5   10   15

Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu
            20   25   30

Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
            35   40   45

Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val
        50   55   60

Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg
65   70   75   80

Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn
                85   90   95

Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu
            100   105   110

Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys
        115   120   125

Gly Gln Lys Leu His Val Ser Arg Gln Xaa Ser Trp Leu Gly Asp Ile
    130   135   140

Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr
145   150   155   160

Phe Leu Ser Ile Leu Glu Ser Leu Trp Ile Val Met Ser Arg Asn Val
            165   170   175

Ser Leu Leu Phe Thr Thr Xaa Thr Thr Leu Leu Thr Ile Leu Phe Tyr
        180   185   190

Ser Gly Thr Ala Leu Leu Asn Phe Val Leu Ser Leu Ile Ile Phe Leu
        195   200   205

Thr Thr Leu Phe Tyr Leu Leu Ser Ser Ser Asp Glu Tyr Tyr Lys Pro
    210   215   220

Val Lys Trp Val Ile Ser Leu Thr Pro Leu Ser Gln Pro Gly Pro Ser
225   230   235   240

Ser Asn Ile Ile Gly Gln Ser Val Glu Glu Ala Ile Arg Gly Val Phe
            245   250   255

Asp Ala Ser Leu Lys Met Ala Gly Phe Tyr Gly Leu Tyr Thr Trp Leu
        260   265   270

1282

Thr His Thr Met Phe Gly Ile Asn Ile Val Phe Ile Pro Ser Ala Leu
        275   280   285

Ala Ala Ile Leu Gly Ala Val Pro Phe Leu Gly Thr Tyr Trp Ala Ala
        290   295   300

Val Pro Ala Val Leu Asp Leu Trp Leu Thr Gln Gly Leu Gly Cys Lys
305   310   315   320

Ala Ile Leu Leu Leu Ile Phe His Leu Leu Pro Thr Tyr Phe Val Asp
                325   330   335

Thr Ala Ile Tyr Ser Asp Ile Ser Gly Gly Gly His Pro Tyr Leu Thr
        340   345   350

Gly Leu Ala Val Ala Gly Gly Ala Tyr Tyr Leu Gly Leu Glu Gly Ala
        355   360   365

Ile Ile Gly Pro Ile Leu Leu Cys Ile Leu Val Val Ala Ser Asn Ile
        370   375   380

Tyr Ser Ala Met Leu Val Ser Pro Thr Asn Ser Val Pro Thr Pro Asn
385   390   395   400

Gln Thr Pro Trp Pro Ala Gln Pro Gln Arg Thr Phe Arg Asp Ile Ser
                405   410   415

Glu Asp Leu Lys Ser Ser Val Gly
                420

<210> 1754
<211> 385
<212> PRT
<213> Homo sapiens

<400> 1754
Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile
  1   5   10   15

Gly Thr Leu Leu Leu Ala Leu Leu Thr Ala Lys Val His Gln Glu
                20   25   30

Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu
        35   40   45

Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val
        50   55   60

Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg

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        65                      70                      75                      80
Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn
                    85                      90                      95

Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu
            100                     105                     110

Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys
        115                     120                     125

Gly Gln Lys Leu His Val Ser Arg Gln Asn Ser Trp Leu Gly Asp Ile
    130                     135                     140

Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr
145                     150                     155                     160

Phe Leu Ser Ile Leu Glu Ser Leu Trp Ile Val Met Ser Arg Asn Val
                165                     170                     175

Ser Leu Leu Phe Thr Thr Val Thr Thr Leu Leu Thr Ile Leu Phe Tyr
                180                     185                     190

Ser Gly Thr Ala Leu Leu Asn Phe Val Leu Ser Leu Ile Ile Phe Leu
        195                     200                     205

Thr Thr Leu Phe Tyr Leu Leu Ser Ser Ser Asp Glu Tyr Tyr Lys Pro
    210                     215                     220

Val Lys Trp Val Ile Ser Leu Thr Pro Leu Ser Gln Pro Gly Pro Ser
225                     230                     235                     240

Ser Asn Ile Ile Gly Gln Ser Val Glu Glu Ala Ile Arg Gly Val Phe
                245                     250                     255

Asp Ala Ser Leu Lys Met Ala Gly Phe Tyr Gly Leu Tyr Thr Trp Leu
            260                     265                     270

Thr His Thr Met Phe Gly Ile Asn Ile Val Phe Ile Pro Ser Ala Leu
        275                     280                     285

Ala Ala Ile Leu Gly Ala Val Pro Phe Leu Gly Thr Tyr Trp Ala Ala
    290                     295                     300

Val Pro Ala Val Leu Asp Leu Trp Leu Thr Gln Gly Leu Gly Cys Lys
305                     310                     315                     320

Ala Ile Leu Leu Met Ile Phe His Leu Leu Pro Thr Tyr Phe Val Asp
                325                     330                     335

Thr Ala Ile Tyr Ser Asp Ile Ser Gly Gly Gly His Pro Tyr Leu Thr
            340                     345                     350
```

Gly Leu Ala Val Ala Gly Gly Ser Ile Leu Pro Arg Pro Gly Arg Ser
        355   360   365

Asn His Arg Ser Tyr Ser Ser Leu His Thr Cys Gly Cys Phe Gln Tyr
        370   375   380

Leu
385

<210> 1755
<211> 293
<212> PRT
<213> Homo sapiens

<400> 1755
Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
  1   5   10   15

Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
            20   25   30

Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
        35   40   45

Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
    50   55   60

Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
 65   70   75   80

Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
            85   90   95

Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
            100   105   110

Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
        115   120   125

Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
        130   135   140

Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
145   150   155   160

Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
            165   170   175

Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu

                            1285

180   185   190

Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
        195   200   205

Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu
        210   215   220

Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
225   230   235   240

Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
                245   250   255

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
                260   265   270

Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
                275   280   285

Gln Ala Asn Ser Thr
        290

<210> 1756
<211> 566
<212> PRT
<213> Homo sapiens

<400> 1756
Met Gln Val Val Ser His Gly Asp Glu Arg Pro Ala Trp Leu Met Ser
  1   5   10   15

Glu Thr Leu Arg His Leu His Thr His Phe Gly Ala Asp Tyr Asp Trp
                20   25   30

Phe Phe Ile Met Gln Asp Asp Thr Tyr Val Gln Ala Pro Arg Leu Ala
            35   40   45

Ala Leu Ala Gly His Leu Ser Ile Asn Gln Asp Leu Tyr Leu Gly Arg
        50   55   60

Ala Glu Glu Phe Ile Gly Ala Gly Glu Gln Ala Arg Tyr Cys His Gly
65   70   75   80

Gly Phe Gly Tyr Leu Leu Ser Arg Ser Leu Leu Leu Arg Leu Arg Pro
                85   90   95

His Leu Asp Gly Cys Arg Gly Asp Ile Leu Ser Ala Arg Pro Asp Glu
            100   105   110

                              1286

```
Trp Leu Gly Arg Cys Leu Ile Asp Ser Leu Gly Val Gly Cys Val Ser
        115             120             125

Gln His Gln Ala Gln Ile Arg Asn Leu Thr Val Leu Thr Pro Glu Gly
        130             135             140

Glu Ala Gly Leu Ser Trp Pro Val Gly Leu Pro Ala Pro Phe Thr Pro
145             150             155             160

His Ser Arg Phe Glu Val Leu Gly Trp Asp Tyr Phe Thr Glu Gln His
            165             170             175

Thr Phe Ser Cys Ala Asp Gly Ala Pro Lys Cys Pro Leu Gln Gly Ala
        180             185             190

Ser Arg Ala Asp Val Gly Asp Ala Leu Glu Thr Ala Leu Glu Gln Leu
        195             200             205

Asn Arg Arg Tyr Gln Pro Arg Leu Arg Phe Gln Lys Gln Arg Leu Leu
    210             215             220

Asn Gly Tyr Arg Arg Phe Asp Pro Ala Arg Gly Met Glu Tyr Thr Leu
225             230             235             240

Asp Pro Gly Ser Thr His Ala Ser Glu Arg Gly His Arg Arg Ala Leu
            245             250             255

Ala Arg Arg Val Ser Leu Leu Arg Pro Leu Ser Arg Val Glu Ile Leu
            260             265             270

Pro Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro
        275             280             285

Leu Leu Val Ala Glu Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe
    290             295             300

Ala Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu
305             310             315             320

Leu Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe
            325             330             335

Leu Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly
            340             345             350

Thr Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val
        355             360             365

Arg Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe
    370             375             380

Phe Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg
```

1287

Cys Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His
            405   410   415

Phe Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly
            420   425   430

Pro Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro
            435   440   445

Ser Arg Gly Ala Pro Ile Ala Gly Arg Phe Asp Arg Gln Ala Ser Ala
    450   455   460

Glu Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu
465   470   475   480

Ala Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu
            485   490   495

Glu Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg
            500   505   510

Ala Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser
            515   520   525

Pro Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu
    530   535   540

Glu Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln
545   550   555   560

Glu Gln Ala Asn Ser Thr
            565

<210> 1757
<211> 249
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (241)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (246)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1757
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Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu
 1               5               10                  15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu
            20              25              30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala
        35              40              45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp
    50              55              60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe
65              70              75              80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro
            85              90              95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr
            100             105             110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu
        115             120             125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe
    130             135             140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val
145             150             155             160

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr
            165             170             175

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile
            180             185             190

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr
        195             200             205

His Asp Pro Tyr Ala Lys Ala Ile Leu Asn Ser Ala Xaa Ser Tyr Phe
    210             215             220

Thr Val Val Gln Leu Leu Tyr His Ser Asp Ile Phe Phe Lys Phe Ser
225             230             235             240

Xaa Gln Gly Tyr Arg Xaa Pro Glu Leu
```

<210> 1758
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1758
Ala Gln Gly His Pro Trp Ser Val Arg Thr Gln Leu Pro Arg Ile Pro
 1   5   10   15

Arg Pro Ser Pro Met Thr Leu Gly Pro Gln Ile Leu Ile Cys His Ser
            20   25   30

Gly Ser Ala Ala Gly Ser Arg Asn Cys Ile Gly Gln Glu Phe Ala Met
            35   40   45

Ile Glu Leu Lys Val Thr Ile Ala Leu Ile Leu Leu His Phe Arg Val
        50   55   60

Thr Pro Asp Pro Thr Arg Pro Leu Thr Xaa Pro Asn His Phe Ile Leu
 65   70   75   80

Lys Pro Lys Asn Gly Met Tyr Xaa Xaa Leu Xaa Lys Leu Ser Glu Cys
                85   90   95

<210> 1759
<211> 249
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (247)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1759

```
Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu
 1               5                  10                  15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu
            20                  25                  30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala
        35                  40                  45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp
    50                  55                  60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe
 65                  70                  75                  80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro
                85                  90                  95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr
            100                 105                 110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu
        115                 120                 125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe
    130                 135                 140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val
145                 150                 155                 160
```

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr
                165   170   175

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile
                180   185   190

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr
                195   200   205

His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe
        210   215   220

His Arg Leu Tyr Ser Cys Cys Ile Thr Val Thr Tyr Phe Ser Asn Ser
225   230   235   240

Ala Xaa Arg Val Thr Val Xaa Xaa Ser
                245

<210> 1760
<211> 509
<212> PRT
<213> Homo sapiens

<400> 1760
Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu
  1   5   10   15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu
                20   25   30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala
        35   40   45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp
        50   55   60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe
65   70   75   80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro
                85   90   95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr
                100   105   110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu
        115   120   125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe
        130   135   140

1292

```
His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val
145                 150                 155                 160

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr
                165                 170                 175

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile
            180                 185                 190

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr
        195                 200                 205

His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe
    210                 215                 220

His Arg Leu Tyr Ser Leu Leu Tyr His Ser Asp Ile Ile Phe Lys Leu
225                 230                 235                 240

Ser Pro Gln Gly Tyr Arg Phe Gln Lys Leu Ser Arg Val Leu Asn Gln
                245                 250                 255

Tyr Thr Asp Thr Ile Ile Gln Glu Arg Lys Lys Ser Leu Gln Ala Gly
            260                 265                 270

Val Lys Gln Asp Asn Thr Pro Lys Arg Lys Tyr Gln Asp Phe Leu Asp
        275                 280                 285

Ile Val Leu Ser Ala Lys Asp Glu Ser Gly Ser Ser Phe Ser Asp Ile
    290                 295                 300

Asp Val His Ser Glu Val Ser Thr Phe Leu Leu Ala Gly His Asp Thr
305                 310                 315                 320

Leu Ala Ala Ser Ile Ser Trp Ile Leu Tyr Cys Leu Ala Leu Asn Pro
                325                 330                 335

Glu His Gln Glu Arg Cys Arg Glu Glu Val Arg Gly Ile Leu Gly Asp
            340                 345                 350

Gly Ser Ser Ile Thr Trp Asp Gln Leu Gly Glu Met Ser Tyr Thr Thr
        355                 360                 365

Met Cys Ile Lys Glu Thr Cys Arg Leu Ile Pro Ala Val Pro Ser Ile
    370                 375                 380

Ser Arg Asp Leu Ser Lys Pro Leu Thr Phe Pro Asp Gly Cys Thr Leu
385                 390                 395                 400

Pro Ala Gly Ile Thr Val Val Leu Ser Ile Trp Gly Leu His His Asn
                405                 410                 415
```

1293

```
Pro Ala Val Trp Lys Asn Pro Lys Val Phe Asp Pro Leu Arg Phe Ser
            420               425               430

Gln Glu Asn Ser Asp Gln Arg His Pro Tyr Ala Tyr Leu Pro Phe Ser
            435               440               445

Ala Gly Ser Arg Asn Cys Ile Gly Gln Glu Phe Ala Met Ile Glu Leu
            450               455               460

Lys Val Thr Ile Ala Leu Ile Leu Leu His Phe Arg Val Thr Pro Asp
465               470               475               480

Pro Thr Arg Pro Leu Thr Phe Pro Asn His Phe Ile Leu Lys Pro Lys
                485               490               495

Asn Gly Met Tyr Leu His Leu Lys Lys Leu Ser Glu Cys
            500               505


<210> 1761
<211> 143
<212> PRT
<213> Homo sapiens

<400> 1761
Met Phe Lys Trp Val Arg Arg Thr Leu Ile Ala Leu Val Gln Val Thr
 1             5               10               15

Phe Gly Arg Thr Ile Asn Lys Gln Ile Arg Asp Thr Val Ser Trp Ile
            20               25               30

Phe Ser Glu Gln Met Leu Val Tyr Tyr Ile Asn Ile Phe Arg Asp Ala
            35               40               45

Phe Trp Pro Asn Gly Lys Leu Ala Pro Pro Thr Thr Ile Arg Ser Lys
            50               55               60

Glu Gln Ser Gln Glu Thr Lys Gln Arg Ala Gln Gln Lys Leu Leu Glu
65               70               75               80

Asn Ile Pro Asp Met Leu Gln Ser Leu Val Gly Gln Gln Asn Ala Arg
                85               90               95

His Gly Ile Ile Lys Ile Phe Asn Ala Leu Gln Glu Thr Arg Ala Asn
            100               105               110

Lys His Leu Leu Tyr Ala Leu Met Glu Leu Leu Leu Ile Glu Leu Cys
            115               120               125

Pro Glu Leu Arg Val His Leu Asp Gln Leu Lys Ala Gly Gln Val
            130               135               140


                              1294
```

<210> 1762
<211> 143
<212> PRT
<213> Homo sapiens

<400> 1762
```
Met Phe Lys Trp Val Arg Arg Thr Leu Ile Ala Leu Val Gln Val Thr
  1               5                  10                  15

Phe Gly Arg Thr Ile Asn Lys Gln Ile Arg Asp Thr Val Ser Trp Ile
             20                  25                  30

Phe Ser Glu Gln Met Leu Val Tyr Tyr Ile Asn Ile Phe Arg Asp Ala
             35                  40                  45

Phe Trp Pro Asn Gly Lys Leu Ala Pro Pro Thr Thr Ile Arg Ser Lys
         50                  55                  60

Glu Gln Ser Gln Glu Thr Lys Gln Arg Ala Gln Gln Lys Leu Leu Glu
 65                  70                  75                  80

Asn Ile Pro Asp Met Leu Gln Ser Leu Val Gly Gln Gln Asn Ala Arg
                 85                  90                  95

His Gly Ile Ile Lys Ile Phe Asn Ala Leu Gln Glu Thr Arg Ala Asn
             100                 105                 110

Lys His Leu Leu Tyr Ala Leu Met Glu Leu Leu Leu Ile Glu Leu Cys
         115                 120                 125

Pro Glu Leu Arg Val His Leu Asp Gln Leu Lys Ala Gly Gln Val
         130                 135                 140
```

<210> 1763
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1763
```
Met Lys Ser Leu Ile Lys Thr Tyr Phe Leu Leu Trp Thr Leu Lys Lys
  1               5                  10                  15

Leu Leu Pro Leu Ser Thr Leu Ile Pro Ile Met Leu Ser Pro Leu Asp
             20                  25                  30

Ile Phe Phe Ser Asp Asn Pro His Ile Asp Cys Ser Gly His His Phe
             35                  40                  45
```

Val Pro Tyr Leu Leu Ile Gly Leu Asp Thr Asp Pro Gln Phe Thr Cys
    50   55   60

Leu Tyr Leu Leu Ile Leu Thr Leu Leu Val Phe Val Phe Ser Leu Thr
 65   70   75   80

Leu Leu Ser Pro Pro Ser Pro Gly
                 85

<210> 1764
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1764
Met Lys Ser Leu Ile Lys Thr Tyr Phe Leu Leu Trp Thr Leu Lys Lys
 1   5   10   15

Leu Leu Pro Leu Ser Thr Leu Ile Pro Ile Met Leu Ser Pro Leu Asp
             20   25   30

Ile Phe Phe Ser Asp Asn Pro His Ile Asp Cys Ser Gly His His Phe
             35   40   45

Val Pro Tyr Leu Leu Ile Gly Leu Asp Thr Asp Pro Gln Phe Thr Cys
    50   55   60

Leu Tyr Leu Leu Ile Leu Thr Leu Leu Val Phe Val Phe Ser Leu Thr
 65   70   75   80

Leu Leu Ser Pro Pro Ser Pro Gly
                 85

<210> 1765
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1765
Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu
 1   5   10   15

Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys
            20   25   30

Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe
            35   40   45

Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe
        50   55   60

Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly
 65   70   75   80

Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val
                85   90   95

Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu
            100   105   110

Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser
            115   120   125

Phe Val Asn His Tyr Met Ser Asp Pro Thr Tyr Tyr Asn Ser Trp Lys

1297

Arg Xaa Ala Gln Gly Pro Arg Thr Cys Ala Ala Gln Val Arg Gly Gly
145   150   155   160

Gly Gly Leu Arg Gly Gly Arg Ala Ala Ala Pro Gly His His His Ala
            165   170   175

Xaa Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Phe
            180   185   190

Xaa Tyr Arg Leu Leu Leu Xaa Arg Val Ser Lys Ser Ala Ala Leu Xaa
            195   200   205

Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln
        210   215   220

Phe Asn Ser Asn Lys Leu Xaa
225   230

<210> 1766
<211> 127
<212> PRT
<213> Homo sapiens

<400> 1766
Glu Gly Phe Phe Lys Arg Leu Phe Val Thr Ser Leu Gln Glu Ala Gly
 1   5   10   15

Leu Phe Leu Phe Leu Phe Phe Leu Arg Glu Gly Val Phe His Trp Cys
            20   25   30

Asn Gly Leu Ala Pro Pro Gly Pro Gly Arg Thr Ser Asp Leu Pro Ser
        35   40   45

Pro Gly Phe Leu Arg Leu Gln Asp Gln Leu Gly Arg Val Lys Arg Gly
    50   55   60

Glu Gly Val Glu Gly Gln Val Arg Ser Gln Ser Cys Pro Gly Arg Pro
65   70   75   80

Pro Ser Leu Ser Thr Ser Ser Ser Arg Glu Pro Ala Ala His Thr Leu
            85   90   95

Leu Asn Ala Gly His Pro Arg Arg Leu Leu Gly Phe Glu Glu Gln Thr
            100   105   110

Phe Phe Pro Gly Leu Ser Ala Phe Cys Pro Asn Phe Ile Cys Phe
        115   120   125

<210> 1767
<211> 240
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1767
Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu
 1   5   10   15

Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys
                20   25   30

Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe
            35   40   45

Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe
        50   55   60

Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly
 65   70   75   80

Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val
                85   90   95

Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu
            100   105   110

Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser
            115   120   125

Phe Val Asn His Tyr Met Ser Asp Pro Thr Tyr Tyr Asn Ser Trp Lys
        130   135   140

Arg Arg Ala Gln Gly Pro Arg Thr Cys Ala Ala Gln Val Arg Gly Gly
145   150   155   160

```
Gly Gly Leu Arg Gly Gly Arg Ala Ala Ala Pro Gly His His His Ala
            165             170             175

Glu Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Xaa
            180             185             190

Ala His Arg Leu Leu Leu Leu Arg Val Ser Lys Ala Pro Arg Leu Pro
            195             200             205

Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln
    210             215             220

Ser Thr Pro Ile Thr Glu Leu Lys Phe Leu Xaa Lys Lys Lys Lys Ile
225             230             235             240
```

<210> 1768
<211> 96
<212> PRT
<213> Homo sapiens

<400> 1768
```
Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val
  1             5              10              15

Ile Trp Leu Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser
            20              25              30

Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe
            35              40              45

Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe
    50              55              60

Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile
 65             70              75              80

Pro Ala Leu Trp Glu Ala Glu Ala Ala Asp Gln Leu Arg Leu Gly Val
            85              90              95
```

<210> 1769
<211> 57

<212> PRT
<213> Homo sapiens

<400> 1769
Leu Tyr Gln Glu Lys Pro Leu Met Trp Pro Arg Thr Ser Leu Leu Tyr
 1   5   10   15

Val Val Pro Arg Trp Leu Leu Pro Cys Ser Ser Leu Pro Cys Pro Leu
            20   25   30

Pro Glu Ile Lys Asn Ser Leu Thr Glu Lys Lys Lys Lys Lys Lys
        35   40   45

Asn Lys Lys Lys Lys Lys Gly Arg Pro
    50   55

<210> 1770
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1770
Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val
 1   5   10   15

Ile Trp Leu Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser
            20   25   30

Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe
            35   40   45

Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe
    50   55   60

Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile
 65   70   75   80

Pro Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser Ala Glu Val Arg Ser
            85   90   95

Leu Arg Pro Ala Trp Pro Thr Trp
            100

<210> 1771
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1771
Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile
 1   5   10   15

Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His
              20   25   30

Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val
          35   40   45

Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Thr Val Ser Gly Ile Val
     50   55   60

Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val Asp Arg
 65   70   75   80

Leu Val Met Ala Val Ala Val Phe Met Glu Gly Phe Leu Phe Tyr Tyr

1302

His Val His Asn Arg Pro Pro Leu Asp Gln His Ile His Ser Leu Leu
            100   105   110

Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser Ile Ser Leu Glu Val Ile
            115   120   125

Phe Arg Asp His Ile Val Leu Glu Leu Phe Arg Thr Ser Leu Ile Ile
            130   135   140

Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly Phe Val Leu Phe Pro Pro
145   150   155   160

Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp Asp Ala Asn Leu Met Xaa
                165   170   175

Ile Thr Met Xaa Phe Cys Cys Thr Thr Trp Leu Xaa Xaa Thr Leu Trp
            180   185   190

Pro Gln Leu Phe Ser Xaa Tyr Xaa Leu Phe Asp Ser Asp Xaa
            195   200   205

<210> 1772
<211> 275
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1772
Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile
  1   5   10   15

Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His
            20   25   30

Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val
            35   40   45

Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Xaa Gly Ile Leu Ala Glu
        50   55   60

Gln Phe Val Pro Asp Gly Pro His Leu His Leu Tyr His Glu Asn His
  65   70   75   80

Trp Ile Lys Leu Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe

Ala Val Ser Gly Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val
            100   105   110

Pro Leu Gly Val Asp Arg Leu Val Met Ala Val Ala Val Phe Met Glu
            115   120   125

Gly Phe Leu Phe Tyr Tyr His Val His Asn Arg Pro Pro Leu Asp Gln
            130   135   140

His Ile His Ser Leu Leu Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser
145   150   155   160

Ile Ser Leu Glu Val Ile Phe Arg Asp His Ile Val Leu Glu Leu Phe
                165   170   175

Arg Thr Ser Leu Ile Ile Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly
            180   185   190

Phe Val Leu Phe Pro Pro Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp
            195   200   205

Asp Ala Asn Leu Met Phe Ile Thr Met Cys Phe Cys Trp His Tyr Leu
            210   215   220

Ala Ala Leu Ser Ile Val Ala Val Asn Tyr Ser Leu Val Tyr Cys Leu
225   230   235   240

Leu Thr Arg Met Lys Arg His Gly Arg Gly Glu Ile Ile Gly Ile Gln
                245   250   255

Lys Leu Asn Ser Asp Asp Thr Tyr Gln Thr Ala Leu Leu Ser Gly Ser
            260   265   270

Asp Glu Glu
        275

<210> 1773
<211> 237
<212> PRT
<213> Homo sapiens

<400> 1773
Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile
 1   5   10   15

Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His
            20   25   30

1304

Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val
        35   40   45

Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Thr Val Ser Gly Ile Val
        50   55   60

Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val Asp Arg
65   70   75   80

Leu Val Met Ala Val Ala Val Phe Met Glu Gly Phe Leu Phe Tyr Tyr
                85   90   95

His Val His Asn Arg Pro Pro Leu Asp Gln His Ile His Ser Leu Leu
                100   105   110

Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser Ile Ser Leu Glu Val Ile
        115   120   125

Phe Arg Asp His Ile Val Leu Glu Leu Phe Arg Thr Ser Leu Ile Ile
        130   135   140

Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly Phe Val Leu Phe Pro Pro
145   150   155   160

Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp Asp Ala Asn Leu Met Phe
                165   170   175

Ile Thr Met Cys Phe Cys Trp His Tyr Leu Ala Ala Leu Ser Ile Val
                180   185   190

Ala Val Asn Tyr Ser Leu Val Tyr Cys Leu Leu Thr Arg Met Lys Arg
                195   200   205

His Gly Arg Gly Glu Ile Ile Gly Ile Gln Lys Leu Asn Ser Asp Asp
        210   215   220

Thr Tyr Gln Thr Ala Leu Leu Ser Gly Ser Asp Glu Glu
225   230   235

<210> 1774
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1774
Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser
  1   5   10   15

Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Leu Tyr Tyr Cys
                20   25   30

1305

Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser
        35   40   45

Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala
        50   55   60

Gly Glu Arg Met Ala
 65

<210> 1775
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1775
Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser
 1   5   10   15

Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Leu Tyr Tyr Cys
                20   25   30

Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser
        35   40   45

Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala
        50   55   60

Gly Glu Arg Met Ala
 65

<210> 1776
<211> 222
<212> PRT
<213> Homo sapiens

<400> 1776
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1   5   10   15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
                20   25   30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
        35   40   45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
        50   55   60

1306

```
Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser
 65              70              75                      80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg
             85              90                      95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys
            100             105             110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro
        115             120             125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp
    130             135             140

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg
145             150             155                     160

Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
            165             170             175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr
            180             185             190

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln
        195             200             205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Lys Lys Lys Lys Lys
    210             215             220


<210> 1777
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1777
Ile Leu Lys Val Leu Lys Val Trp Ser Phe Gln Leu Phe Gln Ile Ala
 1               5               10                      15
```

1307

```
Val Cys Asp Phe Ser His Phe Tyr Leu Leu Arg Asn Ile His Lys Ile
            20                  25                  30

Ile Pro Lys Met Lys Val His Phe Leu Phe Ser Pro Arg Leu Glu Arg
            35                  40                  45

Gly Gly Leu Gly Cys Phe Met Arg Asn Val Phe Leu Asp Leu Arg Trp
        50                  55                  60

Ser Gly Leu Pro Leu Leu Xaa Phe Pro Ala Phe Pro Pro His His Thr
65                  70                  75                      80

Ala Ser Leu Gly Phe Leu Pro Val Ser Gln Asn Tyr Thr His Asp His
                85                  90                  95

Pro Asn Ile Gly Ser Met Pro Xaa Leu
            100                 105


<210> 1778
<211> 489
<212> PRT
<213> Homo sapiens

<400> 1778
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1               5                   10                  15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
            20                  25                  30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
            35                  40                  45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
        50                  55                  60

Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser
65                  70                  75                      80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg
                85                  90                  95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys
            100                 105                 110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro
            115                 120                 125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp
        130                 135                 140
```

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg
145   150   155   160

Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
                 165   170   175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr
             180   185   190

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln
         195   200   205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Phe Leu Val Ser Asn Glu Glu
    210   215   220

Met His Lys Gln Ile Leu Met Thr Ile Gly Leu Glu Asn Leu Cys Glu
225   230   235   240

Asn Pro Tyr Phe Ser Asn Leu Arg Gln Asn Met Lys Asp Leu Ile Leu
             245   250   255

Leu Leu Ala Thr Val Ala Ser Ser Val Pro Asn Phe Lys His Phe Gly
         260   265   270

Phe Tyr Arg Ser Asn Pro Glu Gln Ile Asn Glu Ile His Asn Gln Ser
         275   280   285

Leu Pro Gln Glu Ile Ala Arg His Cys Met Val Gln Ala Arg Leu Leu
    290   295   300

Ala Tyr Arg Thr Glu Asp His Lys Thr Gly Val Gly Ala Val Ile Trp
305   310   315   320

Ala Glu Gly Lys Ser Arg Ser Cys Asp Gly Thr Gly Ala Met Tyr Phe
             325   330   335

Val Gly Cys Gly Tyr Asn Ala Phe Pro Val Gly Ser Glu Tyr Ala Asp
         340   345   350

Phe Pro His Met Asp Asp Lys Gln Lys Asp Arg Glu Ile Arg Lys Phe
         355   360   365

Arg Tyr Ile Ile His Ala Glu Gln Asn Ala Leu Thr Phe Arg Cys Gln
    370   375   380

Glu Ile Lys Pro Glu Glu Arg Ser Met Ile Phe Val Thr Lys Cys Pro
385   390   395   400

Cys Asp Glu Cys Val Pro Leu Ile Lys Gly Ala Gly Ile Lys Gln Ile
             405   410   415

1309

```
Tyr Ala Gly Asp Val Asp Val Gly Lys Lys Lys Ala Asp Ile Ser Tyr
            420             425             430

Met Arg Phe Gly Glu Leu Glu Gly Val Ser Lys Phe Thr Trp Gln Leu
            435             440             445

Asn Pro Ser Gly Ala Tyr Gly Leu Glu Gln Asn Glu Pro Glu Arg Arg
        450             455             460

Glu Asn Gly Val Leu Arg Pro Val Pro Gln Lys Glu Glu Gln His Gln
465             470             475             480

Asp Lys Lys Leu Arg Leu Gly Ile His
                485
```

```
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1               5               10              15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
            20              25              30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
            35              40              45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly
    50              55              60

Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser
65              70              75              80

Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg
            85              90              95

Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys
            100             105             110

Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro
            115             120             125

Ala Asp Pro Glu Ile Ser Leu Leu Thr Glu Ala Ser Ser Ser Glu Asp
        130             135             140

Ala Lys Leu Asp Ala Lys Ala Val Glu Arg Leu Lys Ser Asn Ser Arg
145             150             155             160
```

```
Ala His Val Cys Val Leu Leu Gln Pro Leu Val Cys Tyr Met Val Gln
              165                 170                 175

Phe Val Glu Glu Thr Ser Tyr Lys Cys Asp Phe Ile Gln Lys Ile Thr
              180                 185                 190

Lys Thr Leu Pro Asp Ala Asn Thr Asp Phe Tyr Tyr Glu Cys Lys Gln
              195                 200                 205

Glu Arg Ile Lys Glu Tyr Glu Met Leu Phe Leu Val Ser Asn Glu Glu
        210                 215                 220

Met His Lys Gln Ile Leu Met Thr Ile Gly Leu Glu Asn Leu Cys Glu
225                 230                 235                 240

Asn Pro Tyr Phe Ser Asn Leu Arg Gln Asn Met Lys Asp Leu Ile Leu
              245                 250                 255

Leu Leu Ala Thr Val Ala Ser Met Cys Arg Leu
              260                 265
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<210> 1780
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1780

```
Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala
 1               5                  10                  15

Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu
            20                  25                  30

Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro
            35                  40                  45

Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu
        50                  55                  60

Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr
 65                  70                  75                  80

Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu
                85                  90                  95

Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp
            100                 105                 110

Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met
            115                 120                 125

Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val
    130                 135                 140

Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Xaa Ala Leu Ala
145                 150                 155                 160

Gly Gly Arg Gly Leu Leu His Thr Xaa Pro Xaa Xaa Thr Xaa Pro Gln
                165                 170                 175

Asn Ser Xaa Pro Gly Ser Ala Cys His Ser Arg Ala Glu Thr Xaa Gly
            180                 185                 190

Ile Gln Pro Gly
            195
```

1312

<210> 1781
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1781
His Ile Ile Ser Ala His Val Ser Phe Thr Arg Lys Leu Ile Leu Tyr
 1   5   10   15

Ser Asn Thr Trp Gln Xaa Ala Gly Ser Arg Ala Leu Arg Val Thr Leu
            20   25   30

Ala Asp Gln Ser Pro Ile Pro Pro Phe Trp Val Val Gly Ser Leu Phe
            35   40   45

Cys Pro Arg Xaa Ala Glu Ala Ser Glu Ser Leu Ser Val Pro
    50   55   60

<210> 1782
<211> 577
<212> PRT
<213> Homo sapiens

<400> 1782
Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala
 1   5   10   15

Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu
            20   25   30

Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro
            35   40   45

Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu
    50   55   60

Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr
 65   70   75   80

1313

```
Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu
             85                  90                  95

Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp
            100                 105                 110

Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met
        115                 120                 125

Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val
    130                 135                 140

Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Tyr Ala Leu Ala
145                 150                 155                 160

Gly Ala Val Gly Phe Phe Thr His Tyr Leu Leu Pro Gln Leu Arg Lys
            165                 170                 175

Gln Leu Pro Trp Phe Cys Leu Ser Gln Pro Val Leu Lys Pro Leu Glu
            180                 185                 190

Tyr Ser Gln Tyr Glu Val Arg Gly Ala Ala Gln Val Met Trp Phe Glu
        195                 200                 205

Lys Leu Tyr Ala Gly Leu Gln Cys Val Glu Lys Tyr Leu Ile Tyr Pro
    210                 215                 220

Ala Val Val Leu Asn Ala Leu Thr Val Asp Ala His Thr Val Val Ser
225                 230                 235                 240

His Pro Asp Lys Tyr Cys Phe Tyr Cys Arg Ala Leu Leu Met Thr Val
            245                 250                 255

Ala Gly Leu Lys Leu Leu Arg Ser Ala Phe Cys Cys Pro Pro Gln Gln
            260                 265                 270

Tyr Leu Thr Leu Ala Phe Thr Val Leu Leu Phe His Phe Asp Tyr Pro
        275                 280                 285

Arg Leu Ser Gln Gly Phe Leu Leu Asp Tyr Phe Leu Met Ser Leu Leu
    290                 295                 300

Cys Ser Lys Leu Trp Asp Leu Leu Tyr Lys Leu Arg Phe Val Leu Thr
305                 310                 315                 320

Tyr Ile Ala Pro Trp Gln Ile Thr Trp Gly Ser Ala Phe His Ala Phe
            325                 330                 335

Ala Gln Pro Phe Ala Val Pro His Ser Ala Met Leu Phe Val Gln Ala
            340                 345                 350


                              1314
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```
Leu Leu Ser Gly Leu Phe Ser Thr Pro Leu Asn Pro Leu Leu Gly Ser
    355             360             365

Ala Val Phe Ile Met Ser Tyr Ala Arg Pro Leu Lys Phe Trp Glu Arg
    370             375             380

Asp Tyr Asn Thr Lys Arg Val Asp His Ser Asn Thr Arg Leu Val Thr
385             390             395             400

Gln Leu Asp Arg Asn Pro Gly Ala Asp Asp Asn Asn Leu Asn Ser Ile
            405             410             415

Phe Tyr Glu His Leu Thr Arg Ser Leu Gln His Thr Leu Cys Gly Asp
            420             425             430

Leu Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val
            435             440             445

Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val Gly
    450             455             460

Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg Gly Thr
465             470             475             480

Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly Val Glu Glu
            485             490             495

Asp Glu Gly Cys Cys Cys Cys Glu Pro Gly His Leu Pro Arg Val Leu
            500             505             510

Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu Ala Trp Glu Val Thr
            515             520             525

Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser Ile Ser Asp Asn Asn Ala
    530             535             540

Ala Ser Met Leu Gln Val Phe Asp Leu Arg Lys Ile Leu Ile Thr Tyr
545             550             555             560

Tyr Val Lys Val Arg Trp Ala Gly Val Ala Gly Gln Gln Gly Pro Cys
            565             570             575

Gly
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<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1783
Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu
 1   5   10   15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser
            20   25   30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile
            35   40   45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
    50   55   60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln
 65   70   75   80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp
            85   90   95

Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser
            100   105   110

Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg
            115   120   125

Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu
    130   135   140

Xaa Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys
145   150   155   160

Val Thr Val Ser Pro Ser Ala Pro Ser Trp Gly Pro Ala Trp Xaa Pro
            165   170   175

Ser

<210> 1784
<211> 492
<212> PRT

1316

<213> Homo sapiens

<400> 1784
Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu
 1   5   10   15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser
             20   25   30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile
             35   40   45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala
         50   55   60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln
 65   70   75   80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp
                 85   90   95

Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser
             100   105   110

Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg
             115   120   125

Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu
         130   135   140

Glu Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys
145   150   155   160

Val Thr Val Ile Ser Leu Cys Ser Leu Leu Gly Ala Ser Val Val Pro
                 165   170   175

Phe Met Lys Lys Thr Phe Tyr Lys Arg Leu Leu Leu Tyr Phe Ile Ala
             180   185   190

Leu Ala Ile Gly Thr Leu Tyr Ser Asn Ala Leu Phe Gln Leu Ile Pro
             195   200   205

Glu Ala Phe Gly Phe Asn Pro Leu Glu Asp Tyr Tyr Val Ser Lys Ser
         210   215   220

Ala Val Val Phe Gly Gly Phe Tyr Leu Phe Phe Phe Thr Glu Lys Ile
225   230   235   240

Leu Lys Ile Leu Leu Lys Gln Lys Asn Glu His His His Gly His Ser
                 245   250   255

His Tyr Ala Ser Glu Ser Leu Pro Ser Lys Lys Asp Gln Glu Glu Gly

1317

```
                 260                    265                    270
Val Met Glu Lys Leu Gln Asn Gly Asp Leu Asp His Met Ile Pro Gln
        275                280                285

His Cys Ser Ser Glu Leu Asp Gly Lys Ala Pro Met Val Asp Glu Lys
        290                295                300

Val Ile Val Gly Ser Leu Ser Val Gln Asp Leu Gln Ala Ser Gln Ser
305                310                315                320

Ala Cys Tyr Trp Leu Lys Gly Val Arg Tyr Ser Asp Ile Gly Thr Leu
            325                330                335

Ala Trp Met Ile Thr Leu Ser Asp Gly Leu His Asn Phe Ile Asp Gly
            340                345                350

Leu Ala Ile Gly Ala Ser Phe Thr Val Ser Val Phe Gln Gly Ile Ser
            355                360                365

Thr Ser Val Ala Ile Leu Cys Glu Glu Phe Pro His Glu Leu Gly Asp
        370                375                380

Phe Val Ile Leu Leu Asn Ala Gly Met Ser Ile Gln Gln Ala Leu Phe
385                390                395                400

Phe Asn Phe Leu Ser Ala Cys Cys Cys Tyr Leu Gly Leu Ala Phe Gly
                405                410                415

Ile Leu Ala Gly Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala
            420                425                430

Gly Gly Met Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met
            435                440                445

Asn Glu Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro
        450                455                460

Phe Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val
465                470                475                480

Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly
            485                490


<210> 1785
<211> 192
<212> PRT
<213> Homo sapiens

<400> 1785
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```
Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
 1               5                   10                  15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
             20                  25                  30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
         35                  40                  45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
     50                  55                  60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 65                  70                  75                  80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
             85                  90                  95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
            100                 105                 110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
            115                 120                 125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
            130                 135                 140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
145                 150                 155                 160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
                165                 170                 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
            180                 185                 190


<210> 1786
<211> 192
<212> PRT
<213> Homo sapiens

<400> 1786
Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
 1               5                   10                  15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
             20                  25                  30
```

```
Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
        35              40                  45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
        50              55                  60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
65              70              75                      80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
            85                  90                  95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
            100             105             110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
        115             120             125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
    130             135             140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
145             150             155                     160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
            165             170             175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
            180             185             190
```

<210> 1787
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met
 1   5   10   15

Ile Phe Tyr Met Val Met Cys Ile Xaa Tyr Ile Leu Tyr Gly Ile Leu
                20   25   30

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln
            35   40   45

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val
        50   55   60

Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln
 65   70   75   80

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu
                85   90   ·95

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys
            100   105   110

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu
            115   120   125

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly
        130   135   140

Ser Asn His Leu Ala Xaa Gly Leu Asp Asp Ile Ile Leu Ala Val Ile
145   150   155   160

Asp Ser Ile Phe Val Trp Val
                165

<210> 1788
<211> 167
<212> PRT
<213> Homo sapiens

<400> 1788
Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met
 1   5   10   15

Ile Phe Tyr Met Val Met Cys Ile Val Tyr Ile Leu Tyr Gly Ile Leu
                20   25   30

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln
            35   40   45

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val
        50   55   60

1321

```
Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln
 65               70              75                      80

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu
             85              90                      95

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys
         100             105             110

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu
         115             120             125

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly
     130             135             140

Ser Asn His Leu Ala Val Val Leu Asp Asp Ile Ile Leu Ala Val Ile
145             150                 155                     160

Asp Ser Ile Phe Val Trp Phe
             165
```

<210> 1789
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1789

```
Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
 1               5               10              15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln
             20              25              30

Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser
             35              40              45

Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala
     50              55              60

Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg
 65               70              75                      80

Thr
```

<210> 1790
<211> 81

1322

<212> PRT
<213> Homo sapiens

<400> 1790
Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
 1   5   10   15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln
            20   25   30

Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser
            35   40   45

Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala
    50   55   60

Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg
 65   70   75   80

Thr

<210> 1791
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791
Met Ala Leu Ala Arg Pro Gly Thr Pro Asp Pro Gln Ala Leu Ala Ser
 1   5   10   15

Val Leu Leu Leu Leu Leu Trp Ala Pro Ala Leu Ser Leu Leu Ala Gly
            20   25   30

Thr Val Pro Ser Glu Pro Pro Ser Ala Cys Ala Ser Asp Pro Cys Ala
            35   40   45

Pro Gly Thr Glu Cys Gln Ala Thr Glu Ser Gly Gly Tyr Thr Cys Gly
    50   55   60

1323

```
Pro Met Glu Pro Arg Gly Cys Ala Thr Gln Xaa Cys His His Gly Ala
65              70              75              80

Leu Cys Val Pro Gln Gly Pro Asp Pro Asn Gly Phe Arg Cys Tyr Cys
            85              90              95

Val Pro Gly Phe Gln Gly Pro Arg Cys Glu Leu Asp Ile Asp Glu Cys
            100             105             110

Ala Ser Arg Pro Cys His His Gly Ala Thr Leu Pro Xaa Pro Gly Arg
            115             120             125

Ser Leu Arg Val Pro Leu Pro Leu Gly Tyr Ala Ala Pro His Leu Asn
    130             135             140

Pro Leu Ser Tyr Val Trp Gly Ile Pro His Leu Met Arg Gln Arg Leu
145             150             155             160

Pro Pro Asp Gly Asp Ser Lys Ala Asn Asp Ser Lys Lys Leu Gly Pro
            165             170             175

Gln Lys Ile Tyr Ser Gly Lys
            180


<210> 1792
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1792
Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu
 1           5               10              15

Phe Leu Val Phe Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys
            20              25              30

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro
            35              40              45

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro
    50              55              60

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu
65              70              75              80

Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro
            85              90              95

Leu Pro Glu Asn Glu Gly Ile
            100
```

1324

<210> 1793
<211> 103
<212> PRT
<213> Homo sapiens

<400> 1793
Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu
1   5   10   15

Phe Leu Val Phe Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys
            20   25   30

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro
        35   40   45

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro
    50   55   60

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu
65   70   75   80

Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro
                85   90   95

Leu Pro Glu Asn Glu Gly Ile
            100

<210> 1794
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1794
Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val
1   5   10   15

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His
            20   25   30

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser
        35   40   45

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu
    50   55   60

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Xaa Asp Asn Ser
 65   70   75   80

Arg Gly Ser Leu

<210> 1795
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1795
Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val
 1   5   10   15

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His
                20   25   30

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser
            35   40   45

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu
    50   55   60

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Leu Asp Asn Ser
 65   70   75   80

Arg Gly Ser Leu

<210> 1796
<211> 116
<212> PRT
<213> Homo sapiens

<400> 1796
Met Gly Ser Gly Cys Pro Ala Gln Pro Thr Leu Ser Pro Trp Gly Ile
 1   5   10   15

Leu Ser Arg Leu Leu Gly Val Leu Ala Gly Thr Ser Cys Gly Val Ser
                20   25   30

Thr Pro Ala Ala Ala Gln Gly Gly Pro Glu Ile Gly Cys Arg Ala Pro
            35   40   45

His Leu His Leu Ser Gly His Ala Pro Leu Ala Cys Pro Cys Ser Phe
    50   55   60

Leu Pro Thr Ser Leu Gly Gly Val Cys Val Ser Ala Pro Ala Pro Ala
65   70   75   80

Leu Leu Ser Trp Gly Thr Leu Pro Ala Ile Trp Tyr Trp Gly Cys Pro
                 85   90   95

His Cys Leu Val Leu Gly Pro Gly Pro Ala His Ser Gly Leu Ala Leu
         100   105   110

Leu Val Cys Ser
         115

<210> 1797
<211> 171
<212> PRT
<213> Homo sapiens

<400> 1797
Gly Pro Trp Pro Leu Cys Lys Ala Gln Arg Cys Ala Pro Asp Gln Pro
 1   5   10   15

Ser Gly Leu Pro Trp Ala Arg Leu Gly Val Arg Val Ala His Trp Gly
         20   25   30

Gly Gly Gly Leu Ala Arg His Ser Thr Leu Ala Gly Gly Pro Ser Gln
         35   40   45

Arg Glu Pro Cys Arg Leu Arg Trp Ser Trp Pro Leu Ala Gly Cys Pro
       50   55   60

Gly Ser Ala Pro Pro Leu Gln Gly Pro Ser Arg Asn Leu Leu Leu Asn
65   70   75   80

Gly Lys Ser Tyr Pro Thr Lys Val Arg Leu Ile Arg Gly Gly Ser Leu
         85   90   95

Pro Pro Val Lys Arg Arg Arg Met Asn Trp Ile Asp Ala Pro Asp Asp
         100   105   110

Val Phe Tyr Met Ala Thr Glu Glu Thr Arg Lys Ile Arg Lys Leu Leu
         115   120   125

Ser Ser Ser Glu Thr Lys Arg Ala Ala Arg Arg Pro Tyr Lys Pro Ile
         130   135   140

Ala Leu Arg Gln Ser Gln Ala Leu Pro Pro Arg Pro Pro Pro Pro Ala
145   150   155   160

Pro Val Asn Asp Glu Pro Ile Val Ile Glu Asp
                165   170

<210> 1798
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1798
Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
  1   5   10   15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu
              20   25   30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp
          35   40   45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe
      50   55   60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly
 65   70   75   80

Gln

<210> 1799
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1799
Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe
  1   5   10   15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu
              20   25   30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp
          35   40   45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe
      50   55   60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly
 65   70   75   80

Gln

<210> 1800
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1800
Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp
 1   5   10   15

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys
                20   25   30

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn
            35   40   45

Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val
        50   55   60

Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr
 65   70   75   80

His Leu Gly Arg Ser Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala
                85   90   95

Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr
            100   105   110

Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys
            115   120   125

Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Xaa Thr Arg Thr Leu
        130   135   140

Gly Gly Glu Glu Ser
145

<210> 1801
<211> 149
<212> PRT

1329

<213> Homo sapiens

<400> 1801
```
Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp
 1               5                  10                  15

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys
                20                  25                  30

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn
                35                  40                  45

Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val
        50                  55                  60

Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr
 65                  70                  75                  80

His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala
                85                  90                  95

Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr
                100                 105                 110

Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys
                115                 120                 125

Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Lys Thr Arg Thr Leu
        130                 135                 140

Gly Gly Glu Glu Ser
145
```

<210> 1802
<211> 140
<212> PRT
<213> Homo sapiens

<400> 1802
```
Ile Pro Leu Cys Ser Ile Phe Gly Ala Leu Ile Ala Val Cys Leu Ile
 1               5                  10                  15

Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met Ala Pro Ile Ala
                20                  25                  30

Phe Glu Leu Val Gly Ala Gln Asp Val Ser Gln Ala Ile Gly Phe Leu
                35                  40                  45

Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ile Ala Gly
        50                  55                  60
```

1330

Leu Leu Arg Asp Lys Leu Gly Ser Tyr Asp Val Ala Phe Tyr Leu Ala
65   70   75   80

Gly Val Pro Pro Leu Ile Gly Gly Ala Val Leu Cys Phe Ile Pro Trp
                85   90   95

Ile His Ser Lys Lys Gln Arg Glu Ile Ser Lys Thr Thr Gly Lys Glu
            100   105   110

Lys Met Glu Lys Met Leu Glu Asn Gln Asn Ser Leu Leu Ser Ser Ser
        115   120   125

Ser Gly Met Phe Lys Lys Glu Ser Asp Ser Ile Ile
    130   135   140

<210> 1803
<211> 234
<212> PRT
<213> Homo sapiens

<400> 1803
Pro Thr Arg Pro Pro Thr Arg Pro Val Arg Val Ser Val Gly Gly Leu
 1   5   10   15

Val Gly Glu Val Ala Cys Ala Cys Arg Asp Cys Ile Pro Glu Thr Met
            20   25   30

Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr Ala
        35   40   45

Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met Ala
    50   55   60

Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile Met
65   70   75   80

Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro Ser
                85   90   95

Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala Asp
            100   105   110

Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys Trp
        115   120   125

Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu Val
    130   135   140

Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr Leu

1331

Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser Leu
                165   170   175

Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu Thr
            180   185   190

Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln His
        195   200   205

Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn Lys
    210   215   220

Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu
225   230

<210> 1804
<211> 155
<212> PRT
<213> Homo sapiens

<400> 1804
Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro
  1   5   10   15

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala
            20   25   30

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys
        35   40   45

Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu
    50   55   60

Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr
 65   70   75   80

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser
            85   90   95

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu
            100   105   110

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln
        115   120   125

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn
    130   135   140

Lys Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu
145   150   155

<210> 1805
<211> 202
<212> PRT
<213> Homo sapiens

<400> 1805
Met Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr
  1   5   10   15

Ala Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met
              20   25   30

Ala Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile
          35   40   45

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro
      50   55   60

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala
 65   70   75   80

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys
              85   90   95

Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu
              100   105   110

Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr
          115   120   125

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser
      130   135   140

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu
145   150   155   160

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln
              165   170   175

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn
          180   185   190

Lys Leu Leu Lys Gln Lys Lys Lys Lys Lys
          195   200

1333

<210> 1806
<211> 485
<212> PRT
<213> Homo sapiens

<400> 1806
```
Ala Arg Lys Pro Arg Ser Gln Ile Lys Asn Glu Ile Asn Ile Asp Thr
  1               5                  10                  15

Leu Ala Arg Asp Glu Phe Asn Leu Gln Lys Met Met Val Met Val Thr
             20                  25                  30

Ala Ser Gly Lys Leu Phe Gly Ile Glu Ser Ser Ser Gly Thr Ile Leu
         35                  40                  45

Trp Lys Gln Tyr Leu Pro Asn Val Lys Pro Asp Ser Ser Phe Lys Leu
     50                  55                  60

Met Val Gln Arg Thr Thr Ala His Phe Pro His Pro Pro Gln Cys Thr
 65                  70                  75                  80

Leu Leu Val Lys Asp Lys Glu Ser Gly Met Ser Ser Leu Tyr Val Phe
                 85                  90                  95

Asn Pro Ile Phe Gly Lys Trp Ser Gln Val Ala Pro Pro Val Leu Lys
            100                 105                 110

Arg Pro Ile Leu Gln Ser Leu Leu Leu Pro Val Met Asp Gln Asp Tyr
        115                 120                 125

Ala Lys Val Leu Leu Leu Ile Asp Asp Glu Tyr Lys Val Thr Ala Phe
        130                 135                 140

Pro Ala Thr Arg Asn Val Leu Arg Gln Leu His Glu Leu Ala Pro Ser
145                 150                 155                 160

Ile Phe Phe Tyr Leu Val Asp Ala Glu Gln Gly Arg Leu Cys Gly Tyr
            165                 170                 175

Arg Leu Arg Lys Asp Leu Thr Thr Glu Leu Ser Trp Glu Leu Thr Ile
            180                 185                 190

Pro Pro Glu Val Gln Arg Ile Val Lys Val Lys Gly Lys Arg Ser Ser
            195                 200                 205

Glu His Val His Ser Gln Gly Arg Val Met Gly Asp Arg Ser Val Leu
        210                 215                 220

Tyr Lys Ser Leu Asn Pro Asn Leu Leu Ala Val Val Thr Glu Ser Thr
225                 230                 235                 240

Asp Ala His His Glu Arg Thr Phe Ile Gly Ile Phe Leu Ile Asp Gly
```

1334

Val Thr Gly Arg Ile Ile His Ser Ser Val Gln Lys Lys Ala Lys Gly
            260   265   270

Pro Val His Ile Val His Ser Glu Asn Trp Val Val Tyr Gln Tyr Trp
            275   280   285

Asn Thr Lys Ala Arg Arg Asn Glu Phe Thr Val Leu Glu Leu Tyr Glu
            290   295   300

Gly Thr Glu Gln Tyr Asn Ala Thr Ala Phe Ser Ser Leu Asp Arg Pro
305   310   315   320

Gln Leu Pro Gln Val Leu Gln Gln Ser Tyr Ile Phe Pro Ser Ser Ile
                    325   330   335

Ser Ala Met Glu Ala Thr Ile Thr Glu Arg Gly Ile Thr Ser Arg His
            340   345   350

Leu Leu Ile Gly Leu Pro Ser Gly Ala Ile Leu Ser Leu Pro Lys Ala
            355   360   365

Leu Leu Asp Pro Arg Arg Pro Glu Ile Pro Thr Glu Gln Ser Arg Glu
            370   375   380

Glu Asn Leu Ile Pro Tyr Ser Pro Asp Val Gln Ile His Ala Glu Arg
385   390   395   400

Phe Ile Asn Tyr Asn Gln Thr Val Ser Arg Met Arg Gly Ile Tyr Thr
                    405   410   415

Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu Val Val Ala Tyr Gly Leu
            420   425   430

Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser Lys Gln Phe Asp Val Leu
            435   440   445

Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser Ser Val Leu Phe Gly Leu
            450   455   460

Val Phe Ala Thr Met Ile Thr Lys Arg Leu Ala Gln Val Lys Leu Leu
465   470   475   480

Asn Arg Ala Trp Arg
                    485

<210> 1807
<211> 360
<212> PRT

```
Met Ala Ala Glu Trp Ala Ser Arg Phe Trp Leu Trp Ala Thr Leu Leu
 1               5                  10                  15

Ile Pro Ala Ala Ala Val Tyr Glu Asp Gln Val Gly Lys Phe Asp Trp
            20                  25                  30

Arg Gln Gln Tyr Val Gly Lys Val Lys Phe Ala Ser Leu Glu Phe Ser
            35                  40                  45

Pro Gly Ser Lys Lys Leu Val Val Ala Thr Glu Lys Asn Val Ile Ala
        50                  55                  60

Ala Leu Asn Ser Arg Thr Gly Glu Ile Leu Trp Arg His Val Asp Lys
65                  70                  75                  80

Gly Thr Ala Glu Gly Ala Val Asp Ala Met Leu Leu His Gly Gln Asp
                85                  90                  95

Val Ile Thr Val Ser Asn Gly Gly Arg Ile Met Arg Ser Trp Glu Thr
            100                 105                 110

Asn Ile Gly Gly Leu Asn Trp Glu Ile Thr Leu Asp Ser Gly Ser Phe
            115                 120                 125

Gln Ala Leu Gly Leu Val Gly Leu Gln Glu Ser Val Arg Tyr Ile Ala
        130                 135                 140

Val Leu Lys Lys Thr Thr Leu Ala Leu His His Leu Ser Ser Gly His
145                 150                 155                 160

Leu Lys Trp Val Glu His Leu Pro Glu Ser Asp Ser Ile His Tyr Gln
                165                 170                 175

Met Val Tyr Ser Tyr Gly Ser Gly Val Val Trp Ala Leu Gly Val Val
            180                 185                 190

Pro Phe Ser His Val Asn Ile Val Lys Phe Asn Val Glu Asp Gly Glu
            195                 200                 205

Ile Val Gln Gln Val Arg Val Ser Thr Pro Trp Leu Gln His Leu Ser
        210                 215                 220

Gly Ala Cys Gly Val Val Asp Glu Ala Val Leu Val Cys Pro Asp Pro
225                 230                 235                 240

Ser Ser Arg Ser Leu Gln Thr Leu Ala Leu Glu Thr Glu Trp Glu Leu
                245                 250                 255

Arg Gln Ile Pro Leu Gln Ser Leu Asp Leu Glu Phe Gly Ser Gly Phe
```

```
               260                    265                    270

Gln Pro Arg Val Leu Pro Thr Gln Pro Asn Pro Val Asp Ala Ser Arg
        275              280              285

Ala Gln Phe Phe Leu His Leu Ser Pro Ser His Tyr Ala Leu Leu Gln
        290              295              300

Tyr His Tyr Gly Thr Leu Ser Leu Leu Lys Asn Phe Pro Gln Thr Ala
305              310              315                        320

Leu Val Ser Phe Ala Thr Thr Gly Glu Lys Thr Val Ala Ala Val Met
            325              330                    335

Ala Cys Arg Asn Glu Val Gln Lys Thr Ser Ser Ser Glu Asp Gly Ser
            340              345              350

Met Gly Glu Leu Phe Gly Glu Val
        355              360


<210> 1808
<211> 75
<212> PRT
<213> Homo sapiens

<400> 1808
Met Arg Gly Ile Tyr Thr Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu
  1             5              10                    15

Val Val Ala Tyr Gly Leu Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser
            20              25                    30

Lys Gln Phe Asp Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser
        35              40                    45

Ser Val Leu Phe Gly Leu Val Phe Ala Thr Met Ile Thr Lys Arg Leu
    50              55                    60

Ala Gln Val Lys Leu Leu Asn Arg Ala Trp Arg
 65              70              75


<210> 1809
<211> 136
<212> PRT
<213> Homo sapiens

<400> 1809
Glu Phe Gly Thr Arg Lys Glu Glu Glu Arg Val Ala Met Val Pro Arg


                              1337
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    1              5                    10                      15

    Leu Ala Phe Ile Leu Phe Val Leu Ala Arg Asp Tyr Asn Val Thr Ser
                20                  25              30

    Leu Gly Gln Asp Leu Asn Trp Lys Tyr Glu Ala Lys Asp Tyr Arg Lys
            35                  40              45

    Thr Gly Glu Leu Lys Asn Ile Gly Glu Cys Gly Arg Ser Tyr Lys Phe
        50                  55              60

    Leu Ser Arg Asn Gln Asp Trp Asn Thr Arg Tyr Ser His Pro Asn Arg
    65                  70              75                      80

    Pro Ala Lys Tyr Ser Gly Ile Asp Glu Met Cys Lys Ala Gln Glu Ser
                    85              90                  95

    Gly Leu Ser Pro Ser Lys Gln Leu Asn Arg Leu Ser Thr Leu Thr Ala
                100                 105                 110

    Leu Lys Val Ser Gln Pro Val Lys Leu Ala Leu Phe Ser Arg Ser Pro
            115                 120                 125

    Arg Arg Glu Ile Arg Val Gly Arg
        130                 135
```

<210> 1810
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1810

```
Gly Leu His Phe Asn Ile Arg Val Asp His Gly Met Leu Trp Ala Pro
    1           5                   10                  15

Val Leu Tyr Lys Asp Val Gly Gln Glu Leu Pro Val Val Ser Thr Ala
            20                  25                  30

Pro Ser His Ile Ala Leu Leu Met Glu Pro Phe Thr Pro Asp Val Leu
            35                  40                  45

Ser Arg Leu Met Gly Arg Ile Xaa Val Cys Lys Asp Tyr Val Ile Asp
    50                  55                  60

Gln Leu Trp Ser Val Leu Lys Glu Ile Cys Gln Trp Ile Ile Pro Tyr
```

Gly

<210> 1811
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811
Met His Leu Gly Leu Val Ser Leu Ile Leu Phe Cys Gln Ala Leu Glu
 1   5   10   15

Val Asp Ile Ser Leu Gln Gly Pro Gly Ile Val Pro Gly Arg Ser Glu
            20   25   30

Val Ser Leu Ser Leu Gln Gly Pro Arg Gly Gly Gly Cys Phe Pro Ile
            35   40   45

Ala Thr Gly Ala Pro Phe Ile Val Leu Leu Pro Leu Gly Leu Tyr Leu
        50   55   60

Val Phe His Leu Cys Cys Phe Phe Gly Leu Phe Cys Ala Xaa Leu Arg
 65   70   75   80

Leu Arg Glu Pro Gly Trp Asp His Leu Ile Ile
            85   90

<210> 1812
<211> 230
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812

```
Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser
 1               5                   10                  15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
             20                  25                  30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
         35                  40                  45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Xaa Gly
     50                  55                  60

Pro Xaa Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu
65                  70                  75                      80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
                 85                  90                  95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser
             100                 105                 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
         115                 120                 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala
     130                 135                 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr
145                 150                 155                 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg
             165                 170                 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu
             180                 185                 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu
             195                 200                 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys
     210                 215                 220

Ala Gln Val His Ala Val
225                 230
```

<210> 1813
<211> 232
<212> PRT

<213> Homo sapiens

<400> 1813
Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser
1   5   10   15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro
            20   25   30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
        35   40   45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Leu Gly
    50   55   60

Pro Ser Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu
65   70   75   80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
                85   90   95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser
            100   105   110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
            115   120   125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala
        130   135   140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr
145   150   155   160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg
            165   170   175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu
            180   185   190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu
            195   200   205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys
    210   215   220

Ala Gln Val His Ala Val Ser Cys
225   230

<210> 1814
<211> 156

1341

<212> PRT
<213> Homo sapiens

<400> 1814
Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
  1   5   10   15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser
              20   25   30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
          35   40   45

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly
      50   55   60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu
 65   70   75   80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe
     .   85   90   95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Asp Pro Phe
              100   105   110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
          115   120   125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser
          130   135   140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro
145   150   155

<210> 1815
<211> 213
<212> PRT
<213> Homo sapiens

<400> 1815
Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
  1 .   5   10   15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser
              20   25   30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
          35   40   45

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly

1342

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu
 65   70   75   80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe
                 85   90   95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Pro Phe
             100   105   110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln
             115   120   125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser
         130   135   140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro Val Ser Glu Tyr
145   150   155   160

Met Asn Gln Ala Met Leu Phe Gly Arg Asn Pro Arg Tyr Glu Asn Val
                 165   170   175

Pro Leu Ile Gly Arg Ala Ser Pro Pro Pro Thr Tyr Ser Pro Ser Met
                 180   185   190

Arg Ala Thr Tyr Leu Ser Val Ala Asp Glu His Leu Arg His Tyr Gly
         195   200   205

Asn Gln Phe Pro Ala
    210

<210> 1816
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1816
Glu Cys Xaa Arg Lys Pro Thr Pro Arg Ala Glu Phe Leu Gln Pro Gly
  1   5   10   15

Gly Ser Thr Ser Ser Arg Ala Ala Ala Thr Ala Val
             20   25

```
<210> 1817
<211> 75
<212> PRT
<213> Homo sapiens

<400> 1817
Met Leu Asn Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe
 1               5                  10                  15

Leu Ser Val Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr
                 20                  25                  30

Ala Tyr Thr Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu
             35                  40                  45

Pro Leu Val Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly
         50                  55                  60

Asn Glu Pro Leu Gly Ala Ser Gly Met Phe His
 65                  70                  75



<210> 1818
<211> 280
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1818
Met His Ser Gln Cys Gln Gly Phe Phe Ser Ser Leu Thr Met Leu Asn
 1               5                  10                  15

Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe Leu Ser Val
             20                  25                  30

Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr Ala Tyr Thr
             35                  40                  45

Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu Pro Leu Val
         50                  55                  60
```

1344

```
Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly Asn Glu Pro
65              70              75              80

Pro Trp Cys Phe Trp Asp Val Pro Leu Ile Tyr Ser Tyr Xaa Xaa Asp
            85              90              95

Val Tyr Trp Asn Val Gly Phe Leu Lys Tyr Tyr Glu Leu Lys Gln Val
        100             105             110

Pro Asn Phe Leu Leu Ala Ala Pro Val Ala Ile Leu Val Ala Trp Ala
        115             120             125

Thr Trp Thr Tyr Val Thr Thr His Pro Trp Leu Cys Leu Thr Leu Gly
    130             135             140

Leu Gln Arg Ser Lys Asn Asn Lys Thr Leu Glu Lys Pro Asp Leu Gly
145             150             155             160

Phe Leu Ser Pro Gln Val Phe Val Tyr Val Val His Ala Ala Val Leu
            165             170             175

Leu Leu Phe Gly Gly Leu Cys Met His Val Gln Val Leu Thr Arg Phe
        180             185             190

Leu Gly Ser Ser Thr Pro Ile Met Tyr Trp Phe Pro Ala His Leu Leu
        195             200             205

Gln Asp Gln Glu Pro Leu Leu Arg Ser Leu Lys Thr Val Pro Trp Lys
    210             215             220

Pro Leu Ala Glu Asp Ser Pro Pro Gly Gln Lys Val Pro Arg Asn Pro
225             230             235             240

Ile Met Gly Leu Leu Tyr His Trp Lys Thr Cys Ser Pro Val Thr Arg
            245             250             255

Tyr Ile Leu Gly Tyr Phe Leu Thr Tyr Trp Leu Leu Gly Leu Leu Leu
            260             265             270

His Cys Asn Phe Leu Pro Trp Thr
        275             280


<210> 1819
<211> 273
<212> PRT
<213> Homo sapiens

<400> 1819
Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
1               5               10              15


                        1345
```

```
Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
            20                  25                  30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
            35                  40                  45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
        50                  55                  60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu
65                  70                  75                  80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys
                85                  90                  95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
            100                 105                 110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro
            115                 120                 125

His Ile Ala Leu Ala Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
    130                 135                 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
145                 150                 155                 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr
            165                 170                 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
            180                 185                 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg
        195                 200                 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
    210                 215                 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
225                 230                 235                 240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
            245                 250                 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
            260                 265                 270

Thr
```

<210> 1820
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1820
Met Lys Val Ala Val Ser Pro Ala Val Gly Pro Gly Pro Trp Gly Ser
 1   5   10   15

Gly Val Gly Gly Gly Gly Thr Val Arg Leu Leu Leu Ile Leu Ser Gly
                20   25   30

Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val Asn Val Val Met Leu
            35   40   45

Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser Gln Gln Phe Cys Tyr
        50   55   60

Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile Trp Thr Arg Ile Gln
65   70   75   80

Xaa Arg Xaa Xaa Ser Ser Arg Leu Val Arg Val Thr Gln Val Glu Xaa
                85   90   95

<210> 1821

1347

<211> 273
<212> PRT
<213> Homo sapiens

<400> 1821
Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
 1   5   10   15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
            20   25   30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
        35   40   45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
    50   55   60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu
65   70   75   80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys
            85   90   95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
            100   105   110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro
        115   120   125

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
    130   135   140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
145   150   155   160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr
            165   170   175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
            180   185   190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg
        195   200   205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
    210   215   220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
225   230   235   240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
            245   250   255

1348

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
            260   265   270

Thr

<210> 1822
<211> 273
<212> PRT
<213> Homo sapiens

<400> 1822
Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
 1   5   10   15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
             20   25   30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
             35   40   45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
         50   55   60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu
 65   70   75   80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys
                 85   90   95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
             100   105   110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro
             115   120   125

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu
         130   135   140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys
145   150   155   160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr
                 165   170   175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg
             180   185   190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg

1349

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            195                    200                    205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His
    210                 215                 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly
225                     230                 235                 240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu
                245                 250                 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu
            260             ·265                 270

Thr


<210> 1823
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1823
Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
  1             5                  10                  15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser
            20                  25                  30

Ser Leu Val Leu·Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys
            35                  40                  45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val
        50                  55                  60

Gly Arg Gly Glu Xaa Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser
 65                 70                  75                  80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His
                85                  90                  95

Phe Asn Leu His Phe Arg Asp Thr Phe
            100                 105
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<210> 1824
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1824
Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
 1   5   10   15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser
                20   25   30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys
            35   40   45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val
            50   55   60

Gly Arg Gly Glu Glu Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser
65   70   75   80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His
                85   90   95

Phe Asn Leu His Phe Arg Asp Thr Phe
                100   105

<210> 1825
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1825
Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
 1   5   10   15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
                20   25   30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro
            35   40   45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu
            50   55   60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe
65   70   75   80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys

<210> 1826
<211> 94
<212> PRT
<213> Homo sapiens

<400> 1826
Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu
 1   5   10   15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
             20   25   30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro
             35   40   45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu
     50   55   60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe
 65   70   75   80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys
                 85   90

<210> 1827
<211> 261
<212> PRT
<213> Homo sapiens

<400> 1827
Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
 1   5   10   15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
             20   25   30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
             35   40   45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
     50   55   60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
 65   70   75   80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
            100   105   110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser
            115   120   125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
        130   135   140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145   150   155   160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
                165   170   175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
            180   185   190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
        195   200   205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
    210   215   220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg
225   230   235   240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
            245   250   255

Lys His Asp Tyr Val
            260

<210> 1828
<211> 261
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828
```
Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
  1               5                  10                  15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
             20                  25                  30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
         35                  40                  45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
     50                  55                  60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
 65              70                  75                  80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
                 85                  90                  95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
             100                 105                 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Xaa Ile Xaa Ser
         115                 120                 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
     130                 135                 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145                 150                 155                 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
             165                 170                 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
             180                 185                 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
         195                 200                 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
     210                 215                 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg
225                 230                 235                 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
             245                 250                 255

Lys His Asp Tyr Val
             260
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1354

<210> 1829
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1829
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
 1   5   10   15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
            20   25   30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
        35   40   45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
    50   55   60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
 65   70   75   80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
                85   90

<210> 1830
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1830
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
 1   5   10   15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
            20   25   30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
        35   40   45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
    50   55   60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
 65   70   75   80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
                85   90

<210> 1831
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1831
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
 1   5   10   15

Leu Leu Pro Leu Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
            20   25   30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe
            35   40   45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile
    50   55   60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln
65   70   75   80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
                85   90

<210> 1832
<211> 270
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (268)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1832

```
Gly Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys
1               5               10              15

Thr Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser
            20              25              30

Cys Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys
        35              40              45

Cys Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu
        50              55              60

Phe Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn
65              70              75              80

Cys Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys
            85              90              95

Cys Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu
        100             105             110

Xaa Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe
        115             120             125

Gly Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys
    130             135             140

Thr Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln
145             150             155             160

Cys Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys
            165             170             175

Gly Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe
        180             185             190

Gly Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln
        195             200             205

Gly Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser
        210             215             220

Pro Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe
225             230             235             240

Ser Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala
            245             250             255

Cys Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser
        260             265             270
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1357

```
<210> 1833
<211> 182
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1833
Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
 1               5                  10                  15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Asn Cys Ser
            20                  25                  30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
            35                  40                  45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
    50                  55                  60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys
 65                  70                  75                  80

Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys
                85                  90                  95
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Gln Arg Gly Ala Cys Cys Glu Xaa Cys Lys Gly Cys Thr Tyr Glu Gly
                100   105   110

Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys
                115   120   125

Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg
         130   135   140

Cys Val Xaa His Cys Lys Xaa Pro Leu Glu His Leu Gly Met Cys Cys
145   150   155   160

Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Xaa
                165   170   175

Glu Glu Xaa Gln Pro Glu
                180

<210> 1834
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1834
Ser Ser Ser Leu Leu Ile Ile Tyr Val Cys Met Met Asp Val Thr Ile
 1   5   10   15

Tyr Met Ser Cys Val Glu Ile Lys Gly Cys Leu Asp Ala Met Leu Ile
                20   25   30

Leu Leu Ser Met Arg Lys Tyr Leu Lys Lys Leu Leu His Asn Ile
          35   40   45

<210> 1835
<211> 445
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (288)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (293)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (332)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (443)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1835
Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
 1   5   10   15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Asn Cys Ser
            20   25   30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
            35   40   45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
        50   55   60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys
 65   70   75   80

Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys
                85   90   95

Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys Thr Tyr Glu Gly
            100   105   110

Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys
            115   120   125

Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg
        130   135   140

Cys Val Xaa His Cys Lys Asn Pro Leu Glu His Leu Gly Met Cys Cys
145   150   155   160

Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Gly
                165   170   175

Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys Thr
            180   185   190

1360

```
Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser Cys
        195                 200             205

Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys Cys
    210             215             220

Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu Phe
225             230             235                 240

Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn Cys
            245             250             255

Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys
        260             265             270

Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Xaa
        275             280             285

Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe Gly
    290             295             300

Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys Thr
305             310             315                 320

Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln Cys
            325             330             335

Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly
            340             345             350

Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe Gly
        355             360             365

Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln Gly
    370             375             380

Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser Pro
385             390             395                 400

Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe Ser
            405             410             415

Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala Cys
            420             425             430

Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser
        435             440             445


<210> 1836
<211> 370
```

<212> PRT
<213> Homo sapiens

<400> 1836
Leu Gly Gly Ala Arg Val Arg Arg Ala Val Gly Leu Ser Gly Thr Gly
 1   5   10   15

Ala Glu Ala Gly Arg Ala Gly Ala Met Val Glu Lys Glu Glu Ala Gly
            20   25   30

Gly Gly Ile Ser Glu Glu Glu Ala Ala Gln Tyr Asp Arg Gln Ile Arg
            35   40   45

Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu
    50   55   60

Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile
65   70   75   80

Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr
                85   90   95

Pro Glu Asp Pro Gly Ala Gln Phe Leu Ile Arg Thr Gly Ser Val Gly
            100   105   110

Arg Asn Arg Ala Glu Ala Ser Leu Glu Arg Ala Gln Asn Leu Asn Pro
        115   120   125

Met Val Asp Val Lys Val Asp Thr Glu Asp Ile Glu Lys Lys Pro Glu
    130   135   140

Ser Phe Phe Thr Gln Phe Asp Ala Val Cys Leu Thr Cys Cys Ser Arg
145   150   155   160

Asp Val Ile Val Lys Val Asp Gln Ile Cys His Lys Asn Ser Ile Lys
                165   170   175

Phe Phe Thr Gly Asp Val Phe Gly Tyr His Gly Tyr Thr Phe Ala Asn
                180   185   190

Leu Gly Glu His Glu Phe Val Glu Glu Lys Thr Lys Val Ala Lys Val
        195   200   205

Ser Gln Gly Val Glu Asp Gly Pro Asp Thr Lys Arg Ala Lys Leu Asp
    210   215   220

Ser Ser Glu Thr Thr Met Val Lys Lys Lys Val Val Phe Cys Pro Val
225   230   235   240

Lys Glu Ala Leu Glu Val Asp Trp Ser Ser Glu Lys Ala Lys Ala Ala
                245   250   255

1362

Leu Lys Arg Thr Thr Ser Asp Tyr Phe Leu Leu Gln Val Leu Leu Lys
        260   265   270

Phe Arg Thr Asp Lys Gly Arg Asp Pro Ser Ser Asp Thr Tyr Glu Glu
        275   280   285

Asp Ser Glu Leu Leu Leu Gln Ile Arg Asn Asp Val Leu Asp Ser Leu
    290   295   300

Gly Ile Ser Pro Asp Leu Leu Pro Glu Asp Phe Val Arg Tyr Cys Phe
305   310   315   320

Ser Glu Met Ala Pro Val Cys Ala Val Val Gly Gly Ile Leu Ala Gln
            325   330   335

Glu Ile Val Lys Ala Leu Ser Gln Arg Asp Pro Pro His Asn Asn Phe
        340   345   350

Phe Phe Phe Asp Gly Met Lys Gly Asn Gly Ile Val Glu Cys Leu Gly
    355   360   365

Pro Lys
    370

<210> 1837
<211> 42
<212> PRT
<213> Homo sapiens

<400> 1837
Met Val Pro Ser Val Thr Leu Ile Leu His Cys Pro Gly Phe Ser Thr
  1   5   10   15

Glu Ser His Met Cys Gly Lys Pro Leu Ser Pro Arg Pro Thr Arg Thr
            20   25   30

Val Gly Arg Pro Val Ser Asn Ile Pro Val
            35   40

<210> 1838
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

1363

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1838
Val Gln Gly Val Val Gln Ala Leu Lys Thr Asp His Ala Phe Cys Pro
 1   5   10   15

Xaa Leu Gln Gly Thr Glu Ser Ile Arg Leu Arg Ile Leu Glu Phe Glu
                20   25   30

Leu Asn Gln Val Arg Ser Val Ser Gln Glu Leu Pro Pro Gly Xaa Pro
            35   40   45

Glu Ser Pro Gln Thr Asp Gly Gln Pro Pro Arg Ala Trp Pro Gln Leu
        50   55   60

Gly Met Pro Ser Asn Pro Thr Cys Phe Ser Phe Leu Pro Gly Tyr Ser
65   70   75   80

Gly Leu Arg Ser Ser Ala Leu Asn Phe
                85

<210> 1839
<211> 346
<212> PRT
<213> Homo sapiens

<400> 1839
Met Val Glu Lys Glu Glu Ala Gly Gly Gly Ile Ser Glu Glu Glu Ala
 1   5   10   15

Ala Gln Tyr Asp Arg Gln Ile Arg Leu Trp Gly Leu Glu Ala Gln Lys
                20   25   30

Arg Leu Arg Ala Ser Arg Val Leu Leu Val Gly Leu Lys Gly Leu Gly
            35   40   45

Ala Glu Ile Ala Lys Asn Leu Ile Leu Ala Gly Val Lys Gly Leu Thr
        50   55   60

Met Leu Asp His Glu Gln Val Thr Pro Glu Asp Pro Gly Ala Gln Phe
65   70   75   80

Leu Ile Arg Thr Gly Ser Val Gly Arg Asn Arg Ala Glu Ala Ser Leu
                85   90   95

Glu Arg Ala Gln Asn Leu Asn Pro Met Val Asp Val Lys Val Asp Thr

1364

```
                    100                      105                      110

     Glu Asp Ile Glu Lys Lys Pro Glu Ser Phe Phe Thr Gln Phe Asp Ala
             115                 120                 125

     Val Cys Leu Thr Cys Cys Ser Arg Asp Val Ile Val Lys Val Asp Gln
             130                 135                 140

     Ile Cys His Lys Asn Ser Ile Lys Phe Phe Thr Gly Asp Val Phe Gly
     145                 150                 155                 160

     Tyr His Gly Tyr Thr Phe Ala Asn Leu Gly Glu His Glu Phe Val Glu
                     165                 170                 175

     Glu Lys Thr Lys Val Ala Lys Val Ser Gln Gly Val Glu Asp Gly Pro
                     180                 185                 190

     Asp Thr Lys Arg Ala Lys Leu Asp Ser Ser Glu Thr Thr Met Val Lys
                     195                 200                 205

     Lys Lys Val Val Phe Cys Pro Val Lys Glu Ala Leu Glu Val Asp Trp
             210                 215                 220

     Ser Ser Glu Lys Ala Lys Ala Ala Leu Lys Arg Thr Thr Ser Asp Tyr
     225                 230                 235                 240

     Phe Leu Leu Gln Val Leu Leu Lys Phe Arg Thr Asp Lys Gly Arg Asp
                     245                 250                 255

     Pro Ser Ser Asp Thr Tyr Glu Glu Asp Ser Glu Leu Leu Leu Gln Ile
                     260                 265                 270

     Arg Asn Asp Val Leu Asp Ser Leu Gly Ile Ser Pro Asp Leu Leu Pro
                     275                 280                 285

     Glu Asp Phe Val Arg Tyr Cys Phe Ser Glu Met Ala Pro Val Cys Ala
             290                 295                 300

     Val Val Gly Gly Ile Leu Ala Gln Glu Ile Val Lys Ala Leu Ser Gln
     305                 310                 315                 320

     Arg Asp Pro Pro His Asn Asn Phe Phe Phe Asp Gly Met Lys Gly
                     325                 330                 335

     Asn Gly Ile Val Glu Cys Leu Gly Pro Lys
                     340                 345
```

<210> 1840
<211> 155
<212> PRT

1365

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1840
```
Met Gln His Gln Leu His Leu Leu Ile Cys Trp Gly Lys Gly Ser Lys
 1               5                   10                  15

Ser Asn Thr Ser Cys Leu Gly Pro Val Leu Ser Cys Ser Asn Met Trp
                20                  25                  30

Ser Leu Ala Leu Leu Val Val Ala Gly Ser Met Gly Val Ala Tyr Ser
                35                  40                  45

Ser Val Val Met Tyr Val Leu Leu Trp Val Pro Leu Pro Leu Pro Ser
        50                  55                  60

His Phe Leu Pro Ser Gly Ala Pro Glu Ala Gln Pro Thr Thr Trp Ala
 65                  70                  75                  . 80

Gln Ser Pro His Ser Val Cys Lys Cys Gly Thr Xaa Leu Gly Pro Ala
                85                  90                  95

Lys Pro Gln Gly Pro Ser Leu Pro Xaa Pro Pro Cys Leu Ile Met Leu
                100                 105                 110

Leu Ser Cys Arg Arg Gln Leu Gly Leu Ala Pro Ser Xaa Trp Leu Pro
                115                 120                 125

Gly Xaa Gly Ser His Gly Gly Glu Leu Arg Gly Cys Ser Gln Gly Trp
        130                 135                 140

Ala Pro Gly Ile Ala His Leu Asn Ile Cys Thr
145                 150                 155
```

```
<210> 1841
<211> 42
<212> PRT
<213> Homo sapiens

<400> 1841
Tyr Thr Phe Gln Cys Leu Ser Gln Thr Cys Ser Tyr Asp Ile Lys Cys
1               5                   10                  15

Tyr Phe Leu Val Ala Lys Ile Ile Leu Asp Ser Val Ile Lys Val Tyr
            20                  25                  30

Trp Asn Leu Asn Phe Lys Met Ser Pro Asp
        35                  40


<210> 1842
<211> 265
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1842
Pro Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly
1               5                   10                  15

Ser Pro Gly Leu Gln Xaa Phe Gly Thr Arg Arg Thr Arg Gly Arg Ser
            20                  25                  30

Gly Arg Ala Gln Gly Arg Leu Lys Arg Pro Gly Lys Leu Ala Cys Arg
        35                  40                  45

Lys Phe Pro Gly Arg Arg Gln Arg Val Val Pro Glu Leu Thr Asp Val
    50                  55                  60

Leu Met Asn Glu Ile Leu His Gly Ala Asp Gly Thr Ser Ile Lys Cys
65                  70                  75                  80

Gly Ile Ile Gly Glu Ile Gly Cys Ser Trp Pro Leu Thr Glu Ser Glu
                85                  90                  95

Arg Lys Val Leu Gln Ala Thr Ala His Ala Gln Ala Gln Leu Gly Cys
                100                 105                 110
```
1367

Pro Val Ile Ile His Pro Gly Arg Ser Ser Arg Ala Pro Phe Gln Ile
        115   120   125

Ile Arg Ile Leu Gln Glu Ala Gly Ala Asp Ile Ser Lys Thr Val Met
        130   135   140

Ser His Leu Asp Arg Thr Ile Leu Asp Lys Lys Glu Leu Leu Glu Phe
145   150   155   160

Ala Gln Leu Gly Cys Tyr Leu Glu Tyr Asp Leu Phe Gly Thr Glu Leu
                165   170   175

Leu His Tyr Gln Leu Gly Pro Asp Ile Asp Met Pro Asp Asp Asn Lys
            180   185   190

Arg Ile Arg Arg Val Arg Leu Leu Val Glu Glu Gly Cys Glu Asp Arg
            195   200   205

Ile Leu Val Ala His Asp Ile His Thr Lys Thr Arg Leu Met Lys Tyr
    210   215   220

Gly Gly His Gly Tyr Ser His Ile Leu Thr Asn Val Val Pro Lys Met
225   230   235   240

Leu Leu Arg Gly Ile Thr Glu Asn Val Leu Asp Lys Ile Leu Ile Glu
            245   250   255

Asn Pro Lys Gln Trp Leu Thr Phe Lys
            260   265

<210> 1843
<211> 503
<212> PRT
<213> Homo sapiens

<400> 1843
Met Glu Gln Arg His Val Leu Leu Lys Gln Lys Glu Leu Gly Gly Glu
  1   5   10   15

Glu Pro Glu Pro Ser Leu Arg Glu Gly Pro Gly Gly Leu Val Met Glu
            20   25   30

Gly His Leu Phe Lys Arg Ala Ser Asn Ala Phe Lys Thr Trp Ser Arg
            35   40   45

Arg Trp Phe Thr Ile Gln Ser Asn Gln Leu Val Tyr Gln Lys Lys Tyr
    50   55   60

Lys Asp Pro Val Thr Val Val Val Asp Asp Leu Arg Leu Cys Thr Val
65   70   75   80

```
Lys Leu Cys Pro Asp Ser Glu Arg Arg Phe Cys Phe Glu Val Val Ser
              85                      90                      95

Thr Ser Lys Ser Cys Leu Leu Gln Ala Asp Ser Glu Arg Leu Leu Gln
             100                     105                     110

Leu Trp Val Ser Ala Val Gln Ser Ser Ile Ala Ser Ala Phe Ser Gln
         115                     120                     125

Ala Arg Leu Asp Asp Ser Pro Arg Gly Pro Gly Gln Gly Ser Gly His
     130                     135                     140

Leu Ala Ile Gly Ser Ala Ala Thr Leu Gly Ser Gly Gly Met Ala Arg
145                     150                     155                     160

Gly Arg Glu Pro Gly Gly Val Gly His Val Val Ala Gln Val Gln Ser
             165                     170                     175

Val Asp Gly Asn Ala Gln Cys Cys Asp Cys Arg Glu Pro Ala Pro Glu
             180                     185                     190

Trp Ala Ser Ile Asn Leu Gly Val Thr Leu Cys Ile Gln Cys Ser Gly
         195                     200                     205

Ile His Arg Ser Leu Gly Val His Phe Ser Lys Val Arg Ser Leu Thr
     210                     215                     220

Leu Asp Ser Trp Glu Pro Glu Leu Val Lys Leu Met Cys Glu Leu Gly
225                     230                     235                     240

Asn Val Ile Ile Asn Gln Ile Tyr Glu Ala Arg Val Glu Ala Met Ala
             245                     250                     255

Val Lys Lys Pro Gly Pro Ser Cys Ser Arg Gln Glu Lys Glu Ala Trp
             260                     265                     270

Ile His Ala Lys Tyr Val Glu Lys Lys Phe Leu Thr Lys Leu Pro Glu
         275                     280                     285

Ile Arg Gly Arg Arg Gly Gly Arg Gly Arg Pro Arg Gly Gln Pro Pro
     290                     295                     300

Val Pro Pro Lys Pro Ser Ile Arg Pro Arg Pro Gly Ser Leu Arg Ser
305                     310                     315                     320

Lys Pro Glu Pro Pro Ser Glu Asp Leu Gly Ser Leu His Pro Gly Ala
             325                     330                     335

Leu Leu Phe Arg Ala Ser Gly His Pro Pro Ser Leu Pro Thr Met Ala
         340                     345                     350
```

Asp Ala Leu Ala His Gly Ala Asp Val Asn Trp Val Asn Gly Gly Gln
        355   360   365

Asp Asn Ala Thr Pro Leu Ile Gln Ala Thr Ala Ala Asn Ser Leu Leu
        370   375   380

Ala Cys Glu Phe Leu Leu Gln Asn Gly Ala Asn Val Asn Gln Ala Asp
385   390   395   400

Ser Ala Gly Arg Gly Pro Leu His His Ala Thr Ile Leu Gly His Thr
            405   410   415

Gly Leu Ala Cys Leu Phe Leu Lys Arg Gly Ala Asp Leu Gly Ala Arg
            420   425   430

Asp Ser Glu Gly Arg Asp Pro Leu Thr Ile Ala Met Glu Thr Ala Asn
        435   440   445

Ala Asp Ile Val Thr Leu Leu Arg Leu Ala Lys Met Arg Glu Ala Glu
        450   455   460

Ala Ala Gln Gly Gln Ala Gly Asp Glu Thr Tyr Leu Asp Ile Phe Arg
465   470   475   480

Asp Phe Ser Leu Met Ala Ser Asp Asp Pro Glu Lys Leu Ser Arg Arg
            485   490   495

Ser His Asp Leu His Thr Leu
            500

<210> 1844
<211> 25
<212> PRT
<213> Homo sapiens

<400> 1844
Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser
 1   5   10   15

Leu Met Ala Pro Leu Pro Ser Ala His
            20   25

<210> 1845
<211> 25
<212> PRT
<213> Homo sapiens

<400> 1845

Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser
  1   5   10   15

Leu Met Ala Pro Leu Pro Ser Ala His
            20   25

<210> 1846
<211> 6
<212> PRT
<213> Homo sapiens

<400> 1846
Val Phe Gln Ile Tyr Leu
  1   5

<210> 1847
<211> 6
<212> PRT
<213> Homo sapiens

<400> 1847
Val Phe Gln Ile Tyr Leu
  1   5

<210> 1848
<211> 107
<212> PRT
<213> Homo sapiens

<400> 1848
Met Leu Val Leu Leu Leu Asp Phe Leu Gly Leu Val His Leu Gly Gln
  1   5   10   15

Leu Leu Ile Phe His Ile Tyr Leu Lys Ala Lys Lys Met Thr Thr Phe
            20   25   30

Glu Tyr Leu Ile Asn Asn Arg Lys Glu Glu Ser Ser Lys His Gln Ala
            35   40   45

Val Arg Lys Asp Pro Tyr Val Gln Met Asp Lys Gly Val Leu Gln Gln
        50   55   60

Gly Ala Gly Ala Leu Gly Ser Ser Ala Gln Gly Val Lys Ala Lys Ser
 65   70   75   80

Ser Leu Leu Ile His Lys His Leu Cys His Phe Cys Thr Ser Val Asn

1371

Gln Asp Gly Asp Ser Thr Ala Arg Val His Leu
            100   105

<210> 1849
<211> 245
<212> PRT
<213> Homo sapiens

<400> 1849
Met Leu Gln Ala Arg Asn Gln Ser Pro Ser Ser Gln Arg Pro Leu Asp
  1   5   10   15

Val Leu Arg Arg Asn Gln Asp Pro Gln Ser Pro Ala Ser Ile Ser Val
                20   25   30

Ile Ile Phe Ile Thr Pro Lys Glu Glu Pro Ala Leu Gln Glu Gly Leu
            35   40   45

His Leu Gln Glu Asp Gly Leu Pro Ala Thr Ala Glu Asp Ala Ala Thr
        50   55   60

Cys Leu Thr Val Leu Ser Ser Gln Pro Ala Ser Cys Arg Ala Ser Cys
 65   70   75   80

Cys Leu Arg Ala Asp Gly Pro Gly Met Leu Ala His Thr Cys Glu His
                85   90   95

Ser Thr Gly Lys Trp Glu His Ser Thr Arg Lys Trp Glu His Ser Thr
                100   105   110

Gly Lys Trp Glu His Ser Thr Gly Lys Trp Gly Leu Thr Ala Leu Gln
            115   120   125

Asn Gly Ser Thr Val Leu Gly Asn Gly Ser Thr Val Leu Gly Ser Gly
        130   135   140

Ser Thr Val Leu Arg Ser Gly Ser Thr Val Leu Arg Asn Gly Ser Thr
145   150   155   160

Leu Leu Arg Asn Gly Ser Thr Val Leu Gly Asn Gly His Thr Val Leu
                165   170   175

Gly Asn Gly His Thr Val Leu Arg Asn Gly Ser Thr Val Leu Gly Asn
            180   185   190

Gly Ser Thr Val Leu Gly Asn Gly Ser Pro Gln Tyr Trp Glu Arg Gly
            195   200   205

Val His Ser Thr Arg Lys Trp Glu His Ser Thr Gly Lys Trp Glu His
    210   215   220

Ser Thr Gly Lys Trp Glu His Ser Thr Gly Lys Pro Gln Thr Trp Ile
225   230   235   240

Leu Ser Phe Ser Ala
                245

<210> 1850
<211> 209
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1850
Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile
  1   5   10   15

Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu
                 20   25   30

Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu
            35   40   45

Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala
      50   55   60

Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
 65   70   75   80

1373

Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu
                    85   90   95

Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser
                100   105   110

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Trp Gly Ala
            115   120   125

Pro Pro Cys Arg Ala Ser Pro Xaa Pro Thr Arg His Ala Cys His Phe
    130   135   140

Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg
145   150   155   160

Xaa Phe Leu Glu Gly Phe Val Asp Xaa Leu Leu Glu Ala Leu Arg Ser
                165   170   175

Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val
            180   185   190

Asp Ser Met Tyr Xaa Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His
            195   200   205

Leu

<210> 1851
<211> 547
<212> PRT
<213> Homo sapiens

<400> 1851
Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile
  1   5   10   15

Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu
                20   25   30

Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu
            35   40   45

Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala
    50   55   60

Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
65   70   75   80

Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu
                85   90   95

Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser
            100   105   110

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly
            115   120   125

Ala Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His
    130   135   140

Phe Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr
145   150   155   160

Arg Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg
            165   170   175

Ser Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly
            180   185   190

Val Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys
            195   200   205

His Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro
    210   215   220

Glu Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr
225   230   235   240

Gly Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile
            245   250   255

Cys Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly
            260   265   270

Arg Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys
            275   280   285

Ala Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe
    290   295   300

Gln Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu
305   310   315   320

Phe Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile
            325   330   335

Lys Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile
            340   345   350

Gln Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu
            355   360   365

1375

```
Pro Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe
    370             375             380

Ala Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro
385             390             395                 400

Glu Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu
            405             410                 415

Ser Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His
            420             425             430

Leu Lys Thr Ala Leu Leu His Leu Leu Leu Leu Arg Gln Ala Ala Asp
            435             440             445

Trp Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe
    450             455             460

Leu Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly
465             470             475             480

Asn Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg
            485             490             495

Ala Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu
            500             505             510

Tyr Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro
            515             520             525

Ala Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr
    530             535             540

Pro Lys Ser
545


<210> 1852
<211> 213
<212> PRT
<213> Homo sapiens

<400> 1852
Leu Leu Phe Leu Ser Leu Leu Gln Met Gln Glu Leu Leu Gly Arg Gly
  1             5               10                  15

Ala Trp Ala Pro Gly Cys Gly Arg Arg Pro Ser Gly Trp Gly Gln Leu
            20              25                  30

Ala Cys Pro Asp Pro Leu Leu Pro Pro His Asn Pro Lys Ser Pro Gln
            35              40                  45
```

Pro Gly Pro Ser Thr Ser Gly Val Trp Gly Glu Glu Gln Gly Leu Arg
    50   55   60

Thr Leu Ser Ser Glu His Pro Trp Gln Gly Leu Gln Pro Leu Ile Ser
 65   70   75   80

Ser Leu Lys Pro Cys Gly His Thr Ala Arg Arg Asp Leu Pro Leu Ala
            85   90   95

Pro Ala Ser Phe Gln Pro Arg Val Leu Ile Gln Gly Pro Arg Thr Val
            100   105   110

Pro Pro Val Leu Leu Cys Pro Gln His Lys Ala Arg Leu His Ser Gln
        115   120   125

Lys Cys Ser Gln Ala Leu Glu Gly Asp Pro Ala Ser Ser Pro Thr Ala
    130   135   140

Pro His Pro Thr His Pro Ser Ala Ala Pro Leu Leu Phe Pro Arg Asp
145   150   155   160

Leu Ser Tyr Thr Gly Gln Glu Ala Ala Glu Arg Val Ser Pro Pro Pro
            165   170   175

Ser Lys Arg Ser Cys Ser Leu Cys Gln Asn Arg Val Trp Ala Gly Gly
            180   185   190

Arg Ala Leu Gly Ala Arg Pro Leu Pro Leu Pro Ala Gly Phe Ser Trp
        195   200   205

Ser Leu Cys Trp Lys
    210

<210> 1853
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<400> 1853

```
Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro
 1               5                  10                  15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
            20                  25                  30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser
            35                  40                  45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
        50              55                  60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
65                  70                  75                      80

Leu Ala Tyr His Ser Ala Val His Gly Ile Xaa Asp Leu Met Ser Gln
            85                  90                  95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
            100             105                 110

Leu Pro Pro Ala Glu Thr Ala Arg Ser Ala Arg Thr Ala Pro Arg Ser
        115                 120                 125

Ala Ile Thr Arg Arg Ala Phe Thr Ser Thr Arg Xaa Pro Pro Thr Thr
        130                 135                 140

Arg Thr Val Ala Ser Ser Gly Thr His Thr Phe Arg Thr Phe Thr Asp
145                 150                 155                 160

Arg Phe Gln Thr Cys Lys Val Gln Xaa Arg Leu Ala Ala His Arg Gln
                165                 170                 175

Leu Ile Thr
```

<220>
<221> SITE
<222> (325)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (329)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (335)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (338)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (339)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1854
Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro
 1   5   10   15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
             20   25   30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser
         35   40   45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
     50   55   60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
 65   70   75   80

Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln
             85   90   95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
             100   105   110

Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile
             115   120   125

Cys His Tyr Glu Lys Ser Phe His Lys His Ser Xaa Thr Pro Asn Tyr

1379

Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp
145   150   155   160

Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn
              165   170   175

Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser
              180   185   190

Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
              195   200   205

Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro
      210   215   220

Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala
225   230   235   240

Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile
              245   250   255

Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg
              260   265   270

Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val
          275   280   285

Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro
      290   295   300

Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly
305   310   315   320

Thr Gly Ala Arg Xaa Leu Ala Ala Xaa Ser Leu Asp Pro Gln Xaa Pro
              325   330   335

Arg Xaa Xaa His Thr Arg Gln Ala Val Ala Lys Cys Lys Glu Lys Leu
          340   345   350

Pro Val Glu Asp Leu
          355

<210> 1855
<211> 434
<212> PRT
<213> Homo sapiens

<400> 1855

```
Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro
 1               5                   10                  15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
            20                  25                  30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser
        35                  40                  45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg
    50                  55                  60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
65                  70                  75                      80

Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln
            85                  90                      95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr
            100                 105                 110

Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile
        115                 120                 125

Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Thr Pro Asn Tyr
    130                 135                 140

Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp
145                 150                 155                     160

Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn
            165                 170                 175

Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser
            180                 185                 190

Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
        195                 200                 205

Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro
    210                 215                 220

Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala
225                 230                 235                     240

Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile
            245                 250                 255

Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg
            260                 265                 270

Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val
```

Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro
    290   295   300

Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly
305   310   315   320

Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro Thr Ala Pro
                325   330   335

Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu
            340   345   350

Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp Leu Leu Thr
        355   360   365

Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp
    370   375   380

Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg
385   390   395   400

Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly Leu Pro Leu Ala Pro
            405   410   415

Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu Leu Pro Val
        420   425   430

Phe Cys

<210> 1856
<211> 712
<212> PRT
<213> Homo sapiens

<400> 1856
Met Gly Gln Gly Leu Lys Ala Trp Pro Arg Tyr Arg Val Val Gly Ser
1   5   10   15

Ala Asp Ala Gly Gln Tyr Asn Leu Glu Ile Thr Asp Ala Glu Leu Ser
            20   25   30

Asp Asp Ala Ser Tyr Glu Cys Gln Ala Thr Glu Ala Ala Leu Arg Ser
        35   40   45

Arg Arg Ala Lys Leu Thr Val Leu Ile Pro Pro Glu Asp Thr Arg Ile
    50   55   60

```
Asp Gly Gly Pro Val Ile Leu Leu Gln Ala Gly Thr Pro His Asn Leu
 65              70                  75                      80

Thr Cys Arg Ala Phe Asn Ala Lys Pro Ala Ala Thr Ile Ile Trp Phe
                 85                  90                  95

Arg Asp Gly Thr Gln Gln Glu Gly Ala Val Ala Ser Thr Glu Leu Leu
            100             105             110

Lys Asp Gly Lys Arg Glu Thr Thr Val Ser Gln Leu Leu Ile Asn Pro
            115             120             125

Thr Asp Leu Asp Ile Gly Arg Val Phe Thr Cys Arg Ser Met Asn Glu
    130             135             140

Ala Ile Pro Ser Gly Lys Glu Thr Ser Ile Glu Leu Asp Val His His
145             150             155             160

Pro Pro Thr Val Thr Leu Ser Ile Glu Pro Gln Thr Val Gln Glu Gly
            165             170             175

Glu Arg Val Val Phe Thr Cys Gln Ala Thr Ala Asn Pro Glu Ile Leu
            180             185             190

Gly Tyr Arg Trp Ala Lys Gly Gly Phe Leu Ile Glu Asp Ala His Glu
    195             200             205

Ser Arg Tyr Glu Thr Asn Val Asp Tyr Ser Phe Phe Thr Glu Pro Val
    210             215             220

Ser Cys Glu Val His Asn Lys Val Gly Ser Thr Asn Val Ser Thr Leu
225             230             235             240

Val Asn Val His Phe Ala Pro Arg Ile Val Val Asp Pro Lys Pro Thr
            245             250             255

Thr Thr Asp Ile Gly Ser Asp Val Thr Leu Thr Cys Val Trp Val Gly
            260             265             270

Asn Pro Pro Leu Thr Leu Thr Trp Thr Lys Lys Asp Ser Asn Met Gly
    275             280             285

Pro Arg Pro Pro Gly Ser Pro Pro Glu Ala Ala Leu Ser Ala Gln Val
    290             295             300

Leu Ser Asn Ser Asn Gln Leu Leu Leu Lys Ser Val Thr Gln Ala Asp
305             310             315             320

Ala Gly Thr Tyr Thr Cys Arg Ala Ile Val Pro Arg Ile Gly Val Ala
            325             330             335

Glu Arg Glu Val Pro Leu Tyr Val Asn Gly Pro Pro Ile Ile Ser Ser
```

Glu Ala Val Gln Tyr Ala Val Arg Gly Asp Gly Gly Lys Val Glu Cys
        355   360   365

Phe Ile Gly Ser Thr Pro Pro Asp Arg Ile Ala Trp Ala Trp Lys
    370   375   380

Glu Asn Phe Leu Glu Val Gly Thr Leu Glu Arg Tyr Thr Val Glu Arg
385   390   395   400

Thr Asn Ser Gly Ser Gly Val Leu Ser Thr Leu Thr Ile Asn Asn Val
            405   410   415

Met Glu Ala Asp Phe Gln Thr His Tyr Asn Cys Thr Ala Trp Asn Ser
            420   425   430

Phe Gly Pro Gly Thr Ala Ile Ile Gln Leu Glu Glu Arg Glu Val Leu
        435   440   445

Pro Val Gly Ile Ile Ala Gly Ala Thr Ile Gly Ala Ser Ile Leu Leu
    450   455   460

Ile Phe Phe Phe Ile Ala Leu Val Phe Phe Leu Tyr Arg Arg Arg Lys
465   470   475   480

Gly Ser Arg Lys Asp Val Thr Leu Arg Lys Leu Asp Ile Lys Val Glu
            485   490   495

Thr Val Asn Arg Glu Pro Leu Thr Met His Ser Asp Arg Glu Asp Asp
            500   505   510

Thr Ala Ser Val Ser Thr Ala Thr Arg Val Met Lys Ala Ile Tyr Ser
            515   520   525

Ser Phe Lys Asp Asp Val Asp Leu Lys Gln Asp Leu Arg Cys Asp Thr
    530   535   540

Ile Asp Thr Arg Glu Glu Tyr Glu Met Lys Asp Pro Thr Asn Gly Tyr
545   550   555   560

Tyr Asn Val Arg Ala His Glu Asp Arg Pro Ser Ser Arg Ala Val Leu
            565   570   575

Tyr Ala Asp Tyr Arg Ala Pro Gly Pro Ala Arg Phe Asp Gly Arg Pro
            580   585   590

Ser Ser Arg Leu Ser His Ser Ser Gly Tyr Ala Gln Leu Asn Thr Tyr
    595   600   605

Ser Arg Gly Pro Ala Ser Asp Tyr Gly Pro Glu Pro Thr Pro Pro Gly
    610   615   620

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Pro Ala Ala Pro Ala Gly Thr Asp Thr Thr Ser Gln Leu Ser Tyr Glu
625   630   635   640

Asn Tyr Glu Lys Phe Asn Ser His Pro Phe Pro Gly Ala Ala Gly Tyr
                645   650   655

Pro Thr Tyr Arg Leu Gly Tyr Pro Gln Ala Pro Pro Ser Gly Leu Glu
            660   665   670

Arg Thr Pro Tyr Glu Ala Tyr Asp Pro Ile Gly Lys Tyr Ala Thr Ala
            675   680   685

Thr Arg Phe Ser Tyr Thr Ser Gln His Ser Asp Tyr Gly Gln Arg Phe
        690   695   700

Gln Gln Arg Met Gln Thr His Val
705   710

<210> 1857
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1857
Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val
  1   5   10   15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu
            20   25   30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His
        35   40   45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
    50   55   60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser
 65   70   75   80

Val

<210> 1858
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1858
Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val
  1   5   10   15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu
              20   25   30

Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His
          35   40   45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
      50   55   60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser
 65   70   75   80

Val

<210> 1859
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1859
Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe
  1   5   10   15

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe
              20   25   30

Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu
          35   40   45

Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro
      50   55   60

Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile
 65   70   75   80

Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp
              85   90   95

Gln Cys Leu Ala His Asn Ser Gln
              100

<210> 1860
<211> 104

1386

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<212> PRT
<213> Homo sapiens

<400> 1860
Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe
 1               5                   10                  15

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe
                20                  25                  30

Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu
            35                  40                  45

Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro
        50                  55                  60

Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile
 65                     70                  75                  80

Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp
                85                  90                  95

Gln Cys Leu Ala His Asn Ser Gln
                100


<210> 1861
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1861
Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr
 1               5                   10                  15

Cys Ser Val Ser Asn Glu Xaa Tyr Ala Val Ile Phe Asn Phe Phe Pro
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                    20                      25                          30

            Leu Tyr Ile Xaa Phe Leu Ser Asp Cys Phe Lys Xaa Phe Ser Leu Ser
                     35                  40                  45

            Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe
                50                  55                  60

            Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser
            65                  70                  75
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<210> 1862
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1862
Xaa Tyr Thr Phe Val Asn Ser Arg Ser Xaa Xaa Leu Ile Asp Phe Leu
 1               5                  10                  15

Cys Val Ile Met Gly His Leu Phe Leu Val His Phe Met Pro Asp Ile
             20                  25                  30

Leu Lys Phe Lys Thr Lys Tyr Cys Glu Phe Tyr Leu Val Leu Cys Trp
         35                  40                  45

Ile Phe Phe Val Phe Leu Ser Thr Ile Met Ser Phe Leu Leu Gly Cys
    50                  55                  60

Ser Tyr Ser His Trp Lys Gln Phe
65                  70


<210> 1863
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1388

<211> 75
<212> PRT
<213> Homo sapiens

<400> 1863
Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr
 1   5   10   15

Cys Ser Val Ser Asn Glu Gln Tyr Ala Val Ile Phe Asn Phe Phe Pro
             20   25   30

Leu Tyr Ile Cys Phe Leu Ser Asp Cys Phe Lys Cys Phe Ser Leu Ser
         35   40   45

Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe
     50   55   60

Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser
 65   70   75

<210> 1864
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1864
Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
 1   5   10   15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu
             20   25   30

Pro Leu Gly Arg Xaa Thr Ser Gly Lys Val Gln Gly Asp Ser Thr Thr
         35   40   45

Val Lys Leu Arg Phe Gly Leu Gln Leu Gly Val Leu Gly Gln Arg
     50   55   60

<210> 1865
<211> 157
<212> PRT
<213> Homo sapiens

1389

<400> 1865
Gly Gln Arg Gly Arg Pro Ala Ala Thr Ser His Arg Ile Leu Ser Ser
 1   5   10   15

His Ser Leu Ala Ser Gly Cys Pro Val Phe Arg Gly Gly Glu Gly Thr
                20   25   30

Gly Ala Arg Ser Thr Pro Leu Ala Leu Leu Leu Asp Pro Lys Ala Arg
                35   40   45

Pro Asp Pro Phe Ile Pro Trp Gly Ala Pro Ala Ser Ala Ile Gly Met
        50   55   60

Arg Ser Leu Lys Ser Leu His Lys Gln Val Arg Asp Pro Pro Thr Cys
 65   70   75   80

Arg Ser Trp Ala Thr Pro Arg Ala Ile Pro Arg Gly Cys Gly Arg Thr
                85   90   95

Gln Pro Pro Thr Asp Arg Arg Pro Glu Ser Ser Glu Gly Ala Ile Pro
                100   105   110

Ile Pro Thr Ser Gly Glu Ala Arg Thr Ala Ile Val Ala Ser Gly Lys
                115   120   125

Thr Gln Leu Glu Pro Asn Gly Pro Cys Pro His Cys Asn Cys Ala Glu
        130   135   140

Asn Val Ser Gln Met Thr Gln Ile Gly Ser Tyr Phe Phe
145   150   155

<210> 1866
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1866
Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
 1   5   10   15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu
                20   25   30

Pro Leu Gly Arg Gly Thr Leu Glu Gly Gln Gly Asp Pro Gln Leu
                35   40   45

<210> 1867
<211> 89

<212> PRT
<213> Homo sapiens

<400> 1867
Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met
 1   5   10   15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe
             20   25   30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met
         35   40   45

Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His
     50   55   60

Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val
 65   70   75   80

Asp Phe Pro Leu Met Cys Phe Leu Leu
                 85

<210> 1868
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1868
Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met
 1   5   10   15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe
             20   25   30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met
         35   40   45

Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His
     50   55   60

Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val
 65   70   75   80

Asp Phe Pro Leu Met Cys Phe Leu Leu
                 85

<210> 1869
<211> 93

<212> PRT
<213> Homo sapiens

<400> 1869
Met Leu Ile Ser Lys Gly Val Gln Leu Leu Cys Lys Ala Val Tyr Pro
 1   5   10   15

Ser His Leu Trp Ser Phe Leu Val Leu Leu Phe Thr Val Met Lys Thr
            20   25   30

Glu Pro Val Ser Ala Leu Gly Cys Gly Asp Gln Cys His Gln Ser Leu
            35   40   45

Leu Leu Arg Asp Tyr Pro Leu Ala Asn Ile Pro Ile Cys Gly Trp Ala
        50   55   60

Trp Arg Val Tyr Leu Phe Leu Gly Cys Val Cys Ile Cys Val Cys Val
 65   70   75   80

Cys Val Cys Val Phe Asn Ser Ser Val Cys Lys Leu Phe
                85   90

<210> 1870
<211> 304
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1870
Met Ser Ser Ser Glu Met Trp Thr Val Leu Trp His Arg Phe Ser Met
 1   5   10   15

Val Leu Arg Leu Pro Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser
            20   25   30

Leu Ser Ser Pro Pro Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro

1392

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          35                      40                      45
Gln Gly Ile Phe Leu Ser His Gly Ser Ile Leu Met Ser Ile Leu Lys
    50                      55                      60

His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala Pro His
65                      70                      75                  80

Gly Ser Glu Phe Leu Pro Val Val Val Leu Ser Val Cys Gln Leu Leu
                85                      90                      95

Cys Xaa Pro Phe Ala Leu Asp Met Asp Ala Asp Leu Leu Ile Asp Val
            100                     ·105                    110

Leu Ala Asp Leu Arg Asp Ser Glu Val Ala Ala His Leu Leu Gln Val
            115                     120                     125

Cys Cys Tyr His Leu Pro Leu Met Gln Val Glu Leu Pro Ile Ser Leu
    130·                    135                     140

Leu Thr Arg Leu Ala Leu Met Asp Pro Thr Ser Leu Asn Gln Phe Val
145                     150                     155                 160

Asn Thr Val Ser Ala Xaa Pro Arg Thr Ile Val Ser Phe Leu Ser Val
            165                     170                     175

Ala Leu Leu Ser Asp Gln Pro Leu Leu Thr Ser Asp Leu Leu Ser Leu
            180                     185                     190

Leu Ala His Thr Ala Arg Val Leu Ser Pro Ser His Leu Ser Phe Ile
            195                     200                     205

Gln Glu Leu Leu Ala Gly Ser Asp Glu Ser Tyr Arg Pro Leu Arg Ser
    210                     215                     220

Ser Trp Ala Thr Gln Arg Xaa Leu Cys Gly His Thr Leu Ile Gly Ser
225                     230                     235                 240

Trp Asp Thr Cys Ser Asn Thr Ala Trp Pro Cys Val Gly His Cys Arg
            245                     250                     255

Ala Ser Leu Asp Cys Ser Ala Phe Cys Cys Leu Gly Leu Glu Thr Arg
            260                     265                     270

Ile Leu Leu Cys Gly Ala Val Pro Ala Leu Leu Trp Ala Met Gln Pro
            275                     280                     285

Thr Arg Leu Val Leu Trp Asp Leu Pro Trp Gln Leu Gln Cys Pro Val
    290                     295                     300
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<210> 1871
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1871
Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
 1   5   10   15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn
            20   25   30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn
            35   40   45

Gly Cys Cys Asn Asn Xaa Ser Arg Val Leu Cys Ser Ser Pro Ala Pro
        50   55   60

Arg Tyr Leu Gly Arg Pro Xaa Lys Glu Lys Thr Ile Val Ile Arg Pro
 65   70   75   80

Pro Phe Leu Arg Pro Arg Ser Phe Xaa Trp Ala
                85   90

<210> 1872
<211> 210
<212> PRT
<213> Homo sapiens

<400> 1872
Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
 1   5   10   15

1394

```
Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn
          20                      25                  30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn
          35                  40                  45

Gly Cys Cys Asn Asn Val Ser Arg Val Leu Cys Ser Ser Pro Ala Pro
      50                  55                  60

Arg Tyr Leu Gly Arg Pro Lys Lys Glu Lys Thr Ile Val Ile Arg Pro
 65                  70                  75                      80

Pro Phe Leu Arg Pro Glu Val Ser Asp Gly Gln Ile Thr Val Lys Ile
              85                  90                  95

Met Asp Asn Gly Ile Gln Gly Glu Leu Arg Arg Thr Lys Ser Lys Gly
          100                 105                 110

Ser Leu Glu Ile Thr Glu Ser Gln Ser Ala Asp Ala Glu Pro Pro Pro
          115                 120                 125

Pro Pro Lys Pro Asp Leu Ser Arg Tyr Thr Gly Leu Arg Thr His Leu
          130                 135                 140

Gly Leu Ala Thr Asn Glu Asp Ser Ser Leu Leu Ala Lys Asp Ser Pro
145                 150                 155                     160

Pro Thr Pro Thr Met Tyr Lys Tyr Arg Pro Gly Tyr Ser Ser Ser Ser
              165                 170                 175

Thr Ser Ala Ala Met Pro His Ser Ser Ser Ala Lys Val Leu Ser Thr
              180                 185                 190

Leu Arg Gly Gly Val Ile Thr Cys Gln Leu Ala Arg His Ser Gly Ser
          195                 200                 205

Phe Leu
    210



<210> 1873
<211> 193
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1873
```
Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg
 1               5                  10                  15

Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu
            20                  25                  30

Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu
        35                  40                  45

Arg Gln Pro Ser Xaa Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro
    50                  55                  60

Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser
65              70                  75                      80

Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg
            85                  90                      95

Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln
            100                 105                 110

Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu
        115                 120                 125

Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val
    130                 135                 140

Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp
145                 150                 155                 160

Pro Ala Ala Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser
            165                 170                 175

Ser Ala Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn Pro
            180                 185                 190

Arg
```

<210> 1874
<211> 461
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

1396

```
<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (442)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1874
Met Thr Ile Gly Phe Ala Leu Gln Leu Leu Gly Gly Pro Phe Gln Arg
  1               5                  10                  15

Arg Leu Pro Gly Leu Gln Leu Arg Gln Pro Ser Xaa Pro Ser Leu Arg
             20                  25                  30

Pro Ala Leu Pro Ser Cys Pro Pro Arg Gln Arg Leu Val Phe Leu Lys
             35                  40                  45

Thr His Lys Ser Gly Ser Ser Ser Val Leu Ser Leu Leu His Arg Tyr
         50              55                  60

Gly Asp Gln His Gly Leu Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe
 65                  70                  75                  80

Gly Tyr Pro Lys Leu Phe Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro
                 85                  90                  95

Gln Gly Gly Gly Thr Gln Leu Pro Phe His Ile Leu Cys His His Met
                100                 105                 110

Arg Phe Asn Leu Lys Glu Val Leu Gln Val Met Pro Ser Asp Ser Phe
             115                 120                 125

Phe Phe Ser Ile Val Arg Asp Pro Ala Ala Leu Ala Arg Ser Ala Phe
         130                 135                 140
```

Ser Tyr Tyr Lys Ser Thr Ser Ser Ala Phe Arg Lys Ser Pro Ser Leu
145   150   155   160

Ala Ala Phe Leu Ala Asn Pro Xaa Xaa Phe Xaa Arg Pro Gly Ala Arg
            165   170   175

Gly Xaa His Tyr Ala Arg Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro
        180   185   190

Phe Pro Pro Glu Lys Arg Ala Lys Arg Gly Asn Ile His Pro Pro Arg
        195   200   205

Asp Pro Asn Pro Pro Gln Leu Gln Val Leu Pro Ser Gly Ala Gly Pro
    210   215   220

Arg Ala Gln Thr Leu Asn Pro Asn Ala Leu Ile His Pro Val Ser Thr
225   230   235   240

Val Thr Asp His Arg Ser Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu
            245   250   255

Gly Ser Ser Ser Phe Ile Gln Trp Gly Leu Ala Trp Leu Asp Ser Val
            260   265   270

Phe Asp Leu Val Met Val Ala Glu Tyr Phe Asp Glu Ser Leu Val Leu
        275   280   285

Leu Ala Asp Ala Leu Cys Trp Gly Leu Asp Asp Val Val Gly Phe Met
    290   295   300

His Asn Ala Gln Ala Gly His Lys Gln Gly Leu Ser Thr Val Ser Asn
305   310   315   320

Ser Gly Leu Thr Ala Glu Asp Arg Gln Leu Thr Ala Arg Ala Arg Ala
            325   330   335

Trp Asn Asn Leu Asp Trp Ala Leu Tyr Val His Phe Asn Arg Ser Leu
            340   345   350

Trp Ala Arg Ile Glu Lys Tyr Gly Gln Gly Arg Leu Gln Thr Ala Val
        355   360   365

Ala Glu Leu Arg Ala Arg Arg Glu Ala Leu Ala Lys His Cys Leu Val
    370   375   380

Gly Gly Glu Ala Ser Asp Pro Lys Tyr Ile Thr Asp Arg Arg Phe Arg
385   390   395   400

Pro Phe Gln Phe Gly Ser Ala Lys Val Leu Gly Tyr Ile Leu Arg Ser
            405   410   415

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Gly Leu Ser Pro Gln Asp Gln Glu Glu Cys Glu Arg Leu Ala Thr Pro
            420   425   430

Glu Leu Gln Tyr Lys Asp Lys Leu Asp Xaa Lys Gln Phe Pro Pro Thr
            435   440   445

Val Ser Leu Pro Leu Lys Thr Ser Arg Pro Leu Ser Pro
    450   455   460

<210> 1875
<211> 191
<212> PRT
<213> Homo sapiens

<400> 1875
Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg
 1   5   10   15

Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu
            20   25   30

Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu
        35   40   45

Arg Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro
    50   55   60

Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser
65   70   75   80

Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg
                85   90   95

Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln
            100   105   110

Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu
            115   120   125

Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val
    130   135   140

Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp
145   150   155   160

Pro Ala Gly Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser
                165   170   175

Ser Thr Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn
            180   185   190

1399

```
<210> 1876
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1876
Met Ala Pro Ala Ile Val Thr Leu Gly Leu Leu Leu Pro Leu Ala Pro
 1               5                  10                  15

Ala Asp Leu Cys Leu Pro Ala Leu Gly Ser Ser Arg Leu Pro Arg Gly
                20                  25                  30

Pro Pro Gln Leu Pro Ser Ile Pro Val Ser Gln Pro Leu Pro Arg Gly
                35                  40                  45

Phe Leu Arg Glu His Pro Gln Pro His Lys Leu Gln Pro Ile Pro Pro
     50                  55                  60

Xaa Ser Gln Lys Ala Leu Phe Leu Glu Pro Arg Arg Arg Leu Trp Pro
 65                  70                  75                  80

Pro Ser Pro




<210> 1877
<211> 96
<212> PRT
<213> Homo sapiens

<400> 1877
Met Ser Ile Pro Met Val Ser Val Leu Leu Cys Gln Ala Pro Leu Leu
 1               5                  10                  15

Ile Gln Val Ala Leu Pro Arg Thr Val Ala Ile Arg Lys Lys Arg Leu
                20                  25                  30

Cys Leu Val Asp Ser Ile Leu Gln Thr Trp His Leu Phe Asn Phe Phe
                35                  40                  45

Leu Val Gly Phe Ile Phe Gln Ser Ile Phe Arg Phe Thr Ala Lys Leu
     50                  55                  60
```

```
Ser Glu Ser Thr Glu Ile Ser His Leu Phe Phe Ala Pro Thr Gln Ala
 65              70              75                      80

Lys Pro His Leu Leu Pro Ile Ser Pro Thr Arg Glu Val His Leu Leu
                85              90                      95
```

```
<210> 1878
<211> 86
<212> PRT
<213> Homo sapiens

<400> 1878
Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val
 1               5               10                      15

Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg
                20              25                      30

Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr
            35              40              45

His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe
    50              55                  60

Leu Phe Asp Ala Gln Glu Gly Pro Ser Ala Val Asp Ile Ala Lys Asp
 65              70              75                      80

Glu Ile Gln Arg Gln Arg
                85
```

```
<210> 1879
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1879
Met Leu Gln Thr Thr Leu Pro Ser Ser Gln Thr Val Ser Leu Cys Leu
 1               5               10                      15

Trp Val Gly Ala Ser Gln Pro Pro Pro Ser Phe Leu Cys Cys Gln Leu
```

Gln Val Phe Leu Cys Leu Leu His Thr Thr Arg Arg Cys Pro Ser Ala
        35   40   45

Leu Pro Ala Leu Val Arg Val Val Pro Val Ser His Cys Gln Thr Ser
        50   55   60

Trp Leu Xaa Cys Gly Asp Leu Phe Leu Cys Leu Arg Ser Phe Leu Arg
65   70   75   80

Ser Val His Ser Ser Gly Val Ser Pro Cys Leu Glu Gln Ile Ala Ser
                85   90   95

Pro Phe Ser Thr Cys Leu Leu Lys Leu Trp Ser Thr Cys Asp Cys Lys
            100   105   110

Phe Ser Ala Ala Thr Pro Glu Pro Ser Ser Ser His Ser Phe Thr Phe
            115   120   125

Met Asp
    130

<210> 1880
<211> 96
<212> PRT
<213> Homo sapiens

<400> 1880
Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
  1   5   10   15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
            20   25   30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
        35   40   45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
        50   55   60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
65   70   75   80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
                85   90   95

1402

<210> 1881
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1881
Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
 1   5   10   15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
            20   25   30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
            35   40   45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
        50   55   60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
 65   70   75   80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
            85   90   95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe
            100   105   110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe
            115   120

<210> 1882
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1882
Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile
 1   5   10   15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr
            20   25   30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
            35   40   45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His
        50   55   60

1403

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu
 65   70   75   80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu
                85   90   95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe
             100   105   110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe
         115   120

<210> 1883
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1883
Met Pro Arg Ser Ser Trp Arg Pro Ala Pro Ser Arg Pro Trp Met Pro
 1   5   10   15

Trp Ser Cys Ala Ser Ser Trp Ser Thr Ser Gly Leu Trp Thr Leu Leu
             20   25   30

Cys Thr Arg Ala Ala Cys Thr Ser Ser Gln Arg Pro Thr Thr Thr Cys
         35   40   45

Trp Asp Gln Pro Arg Arg Leu Thr Leu Leu Cys Ser Gly Ala Cys Ser
    50   55   60

Arg
 65

<210> 1884
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1884

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Xaa Pro Gly
1   5   10   15

Gly Gly Gly Trp Ser Glu Arg Arg Ser Cys His Xaa Thr Pro Ala Trp
            20   25   30

Val Thr Glu Arg Gln Thr Val Ser Lys Lys Lys Lys Lys Lys Lys Asn
            35   40   45

Val Arg Lys Glu Val Glu Ser Tyr Phe His Leu Tyr Phe Ser His Cys
        50   55   60

Leu Ala
 65

<210> 1885
<211> 242
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198).
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1885
```
Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu Cys
 1               5               10               15

Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu Arg
             20              25              30

Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp Ala
         35              40              45

Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala Pro
     50              55              60

Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val Leu
 65              70              75              80

Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr Ser
             85              90              95

Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly Pro
            100             105             110

Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val Thr
            115             120             125

Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala
            130             135             140

Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe
145             150             155             160

Leu Leu Leu Ala Met Leu Val Gln Val Val Arg Xaa Glu Thr Leu Glu
            165             170             175

Leu Gly Leu Asp Leu Ala Gly Ser Met Thr Gln Asn Leu Glu Pro Leu
            180             185             190

Leu Lys Lys Gln Xaa Xaa Asp Trp Ala Leu Pro Val Xaa Lys Leu Leu
            195             200             205

Ser Arg Asp Cys Met Xaa Leu Gly Trp Cys Phe Tyr Phe Ser Trp Val
```

1406

Ala Thr Arg Xaa Cys Ile Glu Lys Xaa Tyr Leu Xaa Lys Ser Val Cys
225   230   235   240

Thr Gly

<210> 1886
<211> 479
<212> PRT
<213> Homo sapiens

<400> 1886
Met Ala Val Leu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala Thr
 1   5   10   15

Leu Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu
            20   25   30

Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu
            35   40   45

Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp
    50   55   60

Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala
 65   70   75   80

Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val
                85   90   95

Leu Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr
            100   105   110

Ser Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly
            115   120   125

Pro Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val
    130   135   140

Thr Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser
145   150   155   160

Ala Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu
            165   170   175

Phe Leu Leu Leu Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu
            180   185   190

1407

Glu Leu Gly Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu
        195   200   205

Pro Leu Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys
        210   215   220

Leu Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala
225   230   235   240

Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp Ala
                245   250   255

Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu His Thr
                260   265   270

Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr Lys Pro Ile
        275   280   285

Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu Thr Arg Phe Ser
        290   295   300

Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg Leu Trp Leu Leu Val
305   310   315   320

Val Leu Cys Leu Leu Arg Leu Ala Val Thr Arg Pro His Leu Gln Ala
                325   330   335

Tyr Leu Cys Leu Ala Lys Ala Arg Val Glu Gln Leu Arg Arg Glu Ala
                340   345   350

Gly Arg Ile Glu Ala Arg Glu Ile Gln Gln Arg Val Val Arg Val Tyr
        355   360   365

Cys Tyr Val Thr Val Val Ser Leu Gln Tyr Leu Thr Pro Leu Ile Leu
370   375   380

Thr Leu Asn Cys Thr Leu Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp
385   390   395   400

Gly Leu Gly Pro Ala Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser
                405   410   415

Ala Ala Pro Ile Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala
                420   425   430

Arg Ile Ala Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg
        435   440   445

Gly Val Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu
        450   455   460

Ala Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser

<210> 1887
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1887
Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
 1   5   10   15

Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
             20   25   30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
         35   40   .   45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu
     50   55   60   '

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
 65   70   75   80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
                 85   90   95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
             100   105   110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys
         115   120

<210> 1888
<211> 122
<212> PRT
<213> Homo sapiens

<400> 1888
Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
 1   5   10   15

Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
             20   25   30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
         35   40   45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
65   70   75   80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
                    85   90   95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
                100   105   110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys
        115   120

<210> 1889
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1889
Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser
1   5   10   15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro
                20   25   30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu
            35   40   45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp
        50   55   60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr
65   70   75   80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala
                85   90

<210> 1890
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1890
Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser
1   5   10   15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu
       35   40   45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp
   50   55   60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr
65   70   75   80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala
         85   90

<210> 1891
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1891
Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
 1   5   10   15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn
        20   25   30

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser
      35   40   45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr
   50   55   60

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser
65   70   75   80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Xaa
         85   90   95

Pro Thr Glu

<210> 1892
<211> 100

<212> PRT
<213> Homo sapiens

<400> 1892
Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
1   5   10   15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn
                20   25   30

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser
            35   40   45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Phe Glu Thr
        50   55   60

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser
65   70   75   80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser
                85   90   95

Leu Pro Ser Ser
            100

<210> 1893
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1893
Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
1   5   10   15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
                20   25   30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
            35   40   45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
        50   55   60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
65   70   75   80

1412

```
Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp
                85                      90                      95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
            100                     105                 110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu
        115                     120                 125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser
    130                 135                 140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu
145                 150                 155 ·                 160

Pro Glu Gly Pro Ala Val Pro
                165
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<400> 1894
Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe
  1                 5                   10                  15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe
                20                  25                  30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala
            35                  40                  45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val
    50                  55                  60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro
 65                 70                  75                  80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp
                85                  90                  95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu
            100                 105                 110
```

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu
        115   120   125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser
        130   135   140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu
145   150   155   160

Pro Glu Gly Pro Ala Val Pro
                165

<210> 1895
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1895
Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
  1   5   10   15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe
                20   25   30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val
        35   40   45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val
        50   55   60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly
 65   70   75   80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val
                85   90

<210> 1896
<211> 41
<212> PRT
<213> Homo sapiens

<400> 1896
Ala Arg Ala Leu Gly Leu Phe Val Ser Met Phe Ser Leu Thr Asn Pro
  1   5   10   15

Ser Pro Val Leu Ser Ala Leu Leu Gly Tyr Thr Gln Leu Asn Asn Leu
                20   25   30

Val His Phe Leu Val Trp Glu Pro Leu
        35   40

<210> 1897
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1897
Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
 1   5   10   15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe
             20   25   30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val
         35   40   45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val
     50   55   60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly
 65   70   75   80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val
                 85   90

<210> 1898
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1898
Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1   5   10   15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
             20   25   30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
         35   40   45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
     50   55   60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
 65   70   75   80

Ser Leu Ser Pro Val Met Ser Arg Xaa Pro Pro Pro Ser Arg Val Ser
             85   90   95

Val Trp Leu Phe Val Cys Leu Pro Thr Arg Leu Pro Val Pro Xaa Ala
             100   105   110

Leu Pro Leu Xaa Pro
         115

<210> 1899
<211> 38
<212> PRT
<213> Homo sapiens

<400> 1899
Ile Ser His Val Leu Ile Asp Ala Tyr Ile Ser Leu Lys Arg Ile Lys
 1   5   10   15

Ser Ser Cys Asn Pro Thr Thr Leu Gly Met Cys Ser Glu Asp Leu Leu
             20   25   30

Arg Leu Cys His Trp Ser
         35

<210> 1900
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1900
Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
 1   5   10   15

```
Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
            20                  25                  30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
            35                  40                  45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
        50                  55                  60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
65                      70                  75                  80

Ser Leu Ser Pro Val Met Ser Arg
                    85


<210> 1901
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1901
Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
1               5                   10                  15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
            20                  25                  30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
            35                  40                  45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val
        50                  55                  60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser
65                      70                  75                  80

Ser Leu Ser Pro Val Met Ser Arg
                    85


<210> 1902
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1902
Met Asn Ser Ala Phe Ser Thr Cys Leu Leu Leu Leu Gln Asp Leu Gly
 1   5   10   15

Val Pro Leu Thr Leu Thr Gly Leu Pro Pro Ala Leu Gly Leu Ala Pro
            20   25   30

Pro Val Leu Glu Pro Arg Ala Pro Gly Leu Glu Leu Pro Leu Trp Gly
        35   40   45

Gly Ser Gln Ala Pro Pro Leu Pro Xaa Leu Ser Ser Val Pro Cys Ser
    50   55   60

Ala Pro Pro Leu Tyr Leu Ser Val Xaa Arg Pro Leu Thr Glu Arg Arg
 65   70   75   80

Cys Arg Val Ser Arg Gly Pro Arg Trp Ser Gln Gly Gln Gly Trp Asp
                85   90   95

Leu Gln Gly Thr Arg Gly Ala His Gly Leu Arg His Leu Cys Pro Gly
                100   105   110

Ser

<210> 1903
<211> 117
<212> PRT
<213> Homo sapiens

<400> 1903
Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro
 1   5   10   15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser
            20   25   30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro
        35   40   45

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
    50   55   60

1418

Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn
 65   70   75   80

Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys
                 85   90   95

Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile
             100   105   110

Thr Met Pro Thr Gln
         115

<210> 1904
<211> 117
<212> PRT
<213> Homo sapiens

<400> 1904
Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro
  1   5   10   15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser
                 20   25   30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro
             35   40   45

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val
     50   55   60

Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn
 65   70   75   80

Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys
                 85   90   95

Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile
             100   105   110

Thr Met Pro Thr Gln
         115

<210> 1905
<211> 124
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1905
Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly
 1   5   10   15

Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile
                20   25   30

His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met
            35   40   45

Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp
    50   55   60

Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala
 65   70   75   80

Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Arg Tyr
                85   90   95

Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser
            100   105   110

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln
            115   120

<210> 1906
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1906
Met Ala Val Tyr Leu Leu Trp Gln Glu Leu Gly Pro Ala Val Leu Ala
 1   5   10   15

Gly Val Ala Val Leu Val Phe Val Ile Pro Ile Asn Ala Leu Ala Ala
                20   25   30

Thr Lys Ile Lys Lys Leu Lys Val Ser Leu Ala Thr Leu Cys Val Tyr
            35   40   45

Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr Ala Thr Lys Val Phe Thr
        50   55   60

Ser Met Ser Leu Phe Asn Ile Leu Arg Ile Pro Leu Phe Glu Leu Pro
65   70   75   80

Thr Val Ile Ser Ala Val Val Gln Thr Lys Ile Ser Leu Gly Arg Leu
                85   90   95

Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu Pro Gln Ser Ile Glu Thr
            100   105   110

Asn Tyr Thr Gly Asp His Ala Ile Gly Phe Thr Asp Ala Ser Phe Ser
        115   120   125

Trp Asp Lys Thr Gly Met Pro Val Leu Lys Glu Ala Leu Trp Leu Met
    130   135   140

Xaa Leu Xaa Xaa Pro Gly Phe Xaa Ile Ala Phe Cys Lys Lys Thr Phe
145   150   155   160

Ser Leu Ala Pro Ser
                165

<210> 1907
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1907
Cys Tyr Arg Cys Ile Phe Ser Ile Val Ser Asn Arg Phe Ile Phe Ser
 1   5   10   15

Asn Pro Trp Ile Ser Ser Cys Ile Phe Thr Ile Ser Lys Gln Ser Asp
                20   25   30

Ser Ile Ala Lys Arg Gln Lys Cys Glu Phe Phe Phe Lys Leu Val Asn
        35   40   45

Thr Cys
    50

<210> 1908
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1908
Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala
 1   5   10   15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr
            20   25   30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu
        35   40   45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile
    50   55   60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr
 65   70   75   80

Lys Val Cys Ile

<210> 1909
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1909
Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala
 1   5   10   15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr
            20   25   30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu
        35   40   45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile
    50   55   60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr
 65   70   75   80

Lys Val Cys Ile

<210> 1910
<211> 275
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1910
Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile
 1   5   10   15

Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr
            20   25   30

Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser
            35   40   45

Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser
        50   55   60

Phe Leu Ile Ser Val Val Xaa Ile Pro Arg Ile Ile Val Met Tyr Met
 65   70   75   80

Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu
                85   90   95

Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu
            100   105   110

His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp
            115   120   125

Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser
    130   135   140

Ser His Phe Thr Ser Ile Asn Cys Xaa Gly Asp Phe Ile Ile Phe Leu

1423

Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala
                165   170   175

Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu Leu
            180   185   190

Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe
        195   200   205

Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu
    210   215   220

Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe
225   230   235   240

Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln
            245   250   255

Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala
            260   265   270

Ile Val Arg
        275

<210> 1911
<211> 275
<212> PRT
<213> Homo sapiens

<400> 1911
Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile
  1   5   10   15

Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr
            20   25   30

Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser
            35   40   45

Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser
        50   55   60

Phe Leu Ile Ser Val Val Arg Ile Pro Arg Ile Ile Val Met Tyr Met
 65   70   75   80

Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu
            85   90   95

1424

```
Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu
        100                 105             110

His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp
        115             120             125

Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser
    130             135                 140

Ser His Phe Thr Ser Ile Asn Cys Phe Gly Asp Phe Ile Ile Phe Leu
145             150                 155                 160

Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala
            165                 170                 175

Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu Leu
        180                 185                 190

Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe
    195                 200                 205

Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu
    210                 215                 220

Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe
225             230                 235                 240

Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln
            245                 250                 255

Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala
            260                 265                 270

Ile Val Arg
        275
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<210> 1912
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1912
```
Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
  1             5                   10                  15
```

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
        20   25   30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
        35   40   45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
    50   55   60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
65   70   75   80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
            85   90   95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
            100   105   110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
        115   120   125

Pro Ile Pro Ala Xaa Leu Phe Cys
    130   135

<210> 1913
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1913
Val Phe Thr Ser Ala Lys Tyr Tyr Gly Glu Leu Ser Leu Lys Cys Ala
 1   5   10   15

Ile Leu Asp Lys Gly Leu Leu Pro Thr Leu Phe Cys Asn Phe Asp Thr
            20   25   30

Ser Ile Phe Thr Pro Ile Asn Ile Thr Lys Pro Gln Phe Tyr Arg Trp
        35   40   45

Lys Glu Leu Leu Phe Phe Cys Cys Ser Leu Met Gln Phe Leu Ile Leu
    50   55   60

<210> 1914
<211> 305
<212> PRT

1426

<213> Homo sapiens

<400> 1914
Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
 1   5   10   15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
            20   25   30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
            35   40   45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
        50   55   60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
65   70   75   80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
                85   90   95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
            100   105   110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
            115   120   125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe
        130   135   140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn
145   150   155   160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr
                165   170   175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg
                180   185   190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg
                195   200   205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu
    210   215   220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp
225   230   235   240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr
                245   250   255

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys
        275   280   285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu
    290   295   300

Ser
305

<210> 1915
<211> 305
<212> PRT
<213> Homo sapiens

<400> 1915
Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile
 1   5   10   15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn
            20   25   30

Phe Pro Leu Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile
            35   40   45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr
    50   55   60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys
 65   70   75   80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn
                85   90   95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
            100   105   110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val
            115   120   125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe
    130   135   140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn
145   150   155   160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr
            165   170   175

1428

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg
                180   185   190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg
            195   200   205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu
    210   215   220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp
225   230   235   240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr
                245   250   255

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala
            260   265   270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys
        275   280   285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu
    290   295   300

Ser
305

<210> 1916
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1916
Met Asp Ser Gly Gly Trp Met Asp Gly Asp Thr Arg Gln Ala Phe Pro
  1   5   10   15

Cys Pro Trp Gly Leu Val Ser Leu Pro Leu Ala Gly Val Thr Leu Ala
            20   25   30

Leu His Val Phe Thr Ala Ser Ala Leu Pro Arg Glu Leu Arg Ser Glu
            35   40   45

Lys Asp Trp Pro Gly Gln Ser Pro Gly Pro Ile Val Ser Val Pro Gly
    50   55   60

1429

```
Xaa Gln Glu Gly Ile Leu Glu Gly Gly Pro Gly Thr Gln Phe Ala Leu
 65                  70                  75                  80




<210> 1917
<211> 331
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (249)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (257)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (298)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1917
Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val
 1                5                  10                  15

Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr
             20                  25                  30

Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val
         35                  40                  45

Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala
     50                  55                  60

Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp
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1430

Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu
                85   90   95

Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile
                100   105   110

Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser
                115   120   125

Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe
        130   135   140

Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala
145   150   155   160

Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser
                165   170   175

Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr
                180   185   190

Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile
                195   200   205

Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln
        210   215   220

Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser
225   230   235   240

Val Pro Leu Pro Pro Leu Ile Met Xaa Cys Arg Thr Ile Met Glu Glu
                245   250   255

Xaa Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg
                260   265   270

His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr
                275   280   285

Ile Pro Asn Ser Leu Lys Arg Ser Asp Xaa Pro Xaa Xaa Val Leu Gly
        290   295   300

Arg Leu Ile Ala Ala Arg Ala Thr Ser Ala Asn Cys His Gln Gly Val
305   310   315   320

Ser Ser Pro Ala Val Gln Lys Arg Ala Cys Arg
                325   330

<210> 1918
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1918
Val Gly Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro
1   5   10   15

Gly Gly Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys
            20   25   30

Arg Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr
            35   40   45

Ala Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln
      50   55   60

Gly Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
65   70   75

<210> 1919
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1919
Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1   5   10   15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
            20   25   30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met
            35   40   45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu
      50   55   60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
65   70   75   80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
                85   90

<210> 1920
<211> 91
<212> PRT

1432

<213> Homo sapiens

<400> 1920
Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
 1   5   10   15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
            20   25   30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met
        35   40   45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu
    50   55   60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
65   70   75   80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
                85   90

<210> 1921
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1921
Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
 1   5   10   15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
            20   25   30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
        35   40   45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
    50   55   60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
65   70   75   80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
                85   90   95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
            100   105

<210> 1922
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1922
Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
1   5   10   15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
            20   25   30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
        35   40   45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
    50   55   60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
65   70   75   80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
            85   90   95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
            100   105

<210> 1923
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1923
Ser Phe Leu Phe Phe Phe Phe Phe Phe Phe Glu Thr Gly Phe Arg Ser
1   5   10   15

Val Phe Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Xaa Leu Pro Pro
            20   25   30

Arg Phe Lys Lys Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr
        35   40   45

Arg His Ala Leu Pro His Pro Val Thr Phe Phe Cys Val Phe Leu Val
    50   55   60

1434

Glu Met Ala Phe Ala Met Leu Ala Met Ala Gly Leu Lys Leu Leu Ala
 65   70   75   80

Ser

<210> 1924
<211> 108
<212> PRT
<213> Homo sapiens

<400> 1924
Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu
  1   5   10   15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys
             20   25   30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp
         35   40   45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
     50   55   60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala
 65   70   75   80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr
             85   90   95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser
            100   105

<210> 1925
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1925
Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu
1   5   10   15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn
            20   25   30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
            35   40   45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Xaa His Val Arg Leu Val
        50   55   60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln
65   70   75   80

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His
                85   90   95

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Xaa His
                100   105   110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
            115   120   125

Lys Thr His Pro Leu Ala Trp Ser
    130   135

<210> 1926
<211> 136
<212> PRT
<213> Homo sapiens

<400> 1926
Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu
1   5   10   15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn
            20   25   30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
            35   40   45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Leu His Val Arg Leu Val
        50   55   60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln
65   70   75   80

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His

1436

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Ser His
            100   105   110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
        115   120   125

Lys Thr His Pro Leu Ala Trp Ser
    130   135

<210> 1927
<211> 86
<212> PRT
<213> Homo sapiens

<400> 1927
Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala
 1   5   10   15

Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser
            20   25   30

Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly
        35   40   45

Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser
    50   55   60

Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr
65   70   75   80

Val Leu Ser Ile Leu His
            85

<210> 1928
<211> 99
<212> PRT
<213> Homo sapiens

<400> 1928
Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
 1   5   10   15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
            20   25   30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu

```
                35                      40                       45
Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu
     50                      55                  60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser
 65                      70                  75                  80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val
                 85                      90                  95

Ser Asn Ser




<210> 1929
<211> 99
<212> PRT
<213> Homo sapiens

<400> 1929
Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala
 1               5                      10                  15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
             20                  25                  30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu
         35                  40                  45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu
     50                   55                  60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser
 65                      70                  75                  80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val
                 85                      90                  95

Ser Asn Ser




<210> 1930
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1930
Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala
 1   5   10   15

Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe
            20   25   30

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu
        35   40   45

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His
    50   55   60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
 65   70   75   80

Arg Val Ser Gly

<210> 1931
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1931
Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
 1   5   10   15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
            20   25   30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn
            35   40   45

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val
    50   55   60

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu
 65   70   75   80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala
            85   90   95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly
            100   105   110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His

1439

```
         115                    120                        125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala
    130                 135                 140

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu
145                 150                 155                 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
            165                 170                 175

Ala Ser
```

<210> 1932
<211> 468
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1932
```
Met Asn Ser Gln Asn Ser Gly Phe Thr Gln Arg Arg Arg Met Ala Leu
  1                 5                  10                      15

Gly Ile Xaa Ile Leu Leu Leu Val Asp Val Ile Trp Val Ala Ser Ser
            20                  25                  30

Glu Leu Thr Ser Tyr Val Phe Thr Gln Tyr Asn Lys Pro Phe Phe Ser
            35                  40                  45

Thr Phe Ala Lys Thr Ser Met Phe Val Leu Tyr Leu Leu Gly Phe Ile
    50                  55                  60

Ile Trp Lys Pro Trp Arg Gln Gln Cys Thr Arg Gly Leu Arg Gly Lys
65                  70                  75                      80

His Ala Ala Phe Phe Ala Asp Ala Glu Gly Tyr Phe Ala Ala Cys Thr
                85                  90                  95

Thr Asp Thr Thr Met Asn Ser Ser Leu Ser Glu Pro Leu Tyr Val Pro
            100                 105                 110
```

```
Val Lys Phe His Asp Leu Pro Ser Glu Lys Pro Glu Xaa Thr Asn Ile
    115                 120                 125

Asp Thr Glu Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile
    130                 135                 140

Met Glu Ile Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu
145                 150                 155                 160

Ser Arg Met Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr
            165                 170                 175

Val Gly Lys Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Phe
            180                 185                 190

Cys Phe Val Trp Phe Leu Ala Asn Leu Ser Tyr Gln Glu Ala Leu Ser
        195                 200                 205

Asp Thr Gln Val Ala Ile Val Asn Ile Leu Ser Ser Thr Ser Gly Leu
    210                 215                 220

Phe Thr Leu Ile Leu Ala Ala Val Phe Pro Ser Asn Ser Gly Asp Arg
225                 230                 235                 240

Phe Thr Leu Ser Lys Leu Leu Ala Val Ile Leu Ser Ile Gly Gly Val
            245                 250                 255

Val Leu Val Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr
            260                 265                 270

Val Gly Ser Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr
            275                 280                 285

Ile Val Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile
    290                 295                 300

Pro Met Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp
305                 310                 315                 320

Pro Gly Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe
            325                 330                 335

Pro Asn Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly
            340                 345                 350

Thr Val Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser
    355                 360                 365

Ser Leu Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile
    370                 375                 380
```

1441

Ile Ala Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe
385   390   395   400

Ala Gly Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu
                405   410   415

Cys His Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile
                420   425   430

Phe Ala Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp
        435   440   445

Ser Glu Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu
        450   455   460

Asp Gly Ala Ser
465

<210> 1933
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1933
Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met
  1   5   10   15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
                20   25   30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn
            35   40   45

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val
        50   55   60

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu
 65   70   75   80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala
                85   90   95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly
            100   105   110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His
            115   120   125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala
        130   135   140

1442

```
Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu
145                 150                 155                 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
                165                 170                 175

Ala Ser


<210> 1934
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1934
Met Leu Val Ala Trp Cys Leu Ala Pro Gly Asp Leu Leu Leu Leu Val
  1                 5                 10                  15

Ile Ile Thr Leu Pro Arg Lys Glu Val Thr Gly Ser Met Ser Thr Val
                20                  25                  30

Cys Gln Cys Glu Ala Gln Pro Ala Met Leu Pro Lys Gly His Phe Thr
            35                  40                  45

His His Ser Pro Lys Ala Ala Arg Lys Ala Gln Glu Gly Thr Arg Lys
        50                  55                  60

Ala Arg Trp Val Ala Leu Glu Asp Ser Ala Pro Phe His Pro Ser Pro
 65                  70                  75                  80

Gly Trp Gly Leu Ile Leu Gln Leu His Pro Gln Pro Met Asn Xaa Ser
                85                  90                  95

Gln Ser Ala Trp Lys His Cys Cys Trp Lys Asn Cys Glu Glu Pro Xaa
            100                 105                 110

Glu Gly Lys Lys
        115
```

1443

<210> 1935
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1935
Lys Thr Pro His Ser Trp Val Ile His Ala Gly Glu Ala Ser Cys His
 1   5   10   15

Val Glu Arg Thr Leu Lys Gln Ser Tyr Gly Ala Ala His Met Arg Gly
            20   25   30

Thr Glu Ala Pro Ser His Gln Pro Cys Glu Pro Pro Trp Lys Trp Ser
            35   40   45

Leu Gln His Gln Ser Ser Phe Gln Met Ile Ala Ala Pro Asn Thr Ile
        50   55   60

Leu Thr Ser Ile Xaa Arg Thr Ser Ala Ser
 65   70

<210> 1936
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

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<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1936
Met Lys Arg Glu Gly Arg Cys Val Leu His Met His Pro Ser Ser Pro
 1               5                   10                  15

Pro Ser Arg Leu Ser Phe Phe Leu Phe Leu Arg Gln Ser Leu Ala Leu
            20                  25                  30

Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala Gln Arg Asn Leu
        35                  40                  45

Arg Leu Leu Gly Ser Arg Asp Ser Pro Ala Ser Ala Ser Cys Cys Pro
    50                  55                  60

Pro Ser Ser Leu Ser Arg Arg Trp Arg Trp Arg Glu Val Pro Glu Gly
 65                  70                  75                  80

Leu Trp Gly Leu Xaa Trp Val Xaa Leu Cys Ser Leu Ser Ala Xaa Trp
            85                  90                  95

Thr Ala Leu Lys Gly Ser Ser Pro Pro Phe Xaa Ala Lys Gln Leu Gly
            100                 105                 110

His His Arg Asn Gly Ile Asn Leu Ala Glu Xaa Ser Leu Pro Lys
            115                 120                 125


<210> 1937
<211> 44
<212> PRT
<213> Homo sapiens

<400> 1937
Leu Met Pro Val Ile Pro Ala Ile Trp Glu Thr Glu Ala Gly Gly Leu
 1               5                   10                  15

Leu Glu Ala Arg Ser Leu Arg Gln Pro Gly Gln His Ser Glu Thr Pro
            20                  25                  30

Ser Leu Gln Glu Thr Phe Lys Asn Lys Asn Ser Ser
        35                  40
```

<210> 1938
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1938
Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Phe Leu
1   5   10   15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val
            20   25   30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala
        35   40   45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg
    50   55   60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly
65   70   75   80

Gln Asp Gly Leu Asp Leu Leu Thr Ser
                85

<210> 1939
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1939
Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Phe Leu
1   5   10   15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val
            20   25   30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala
        35   40   45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg
    50   55   60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly
65   70   75   80

Gln Asp Gly Leu Asp Leu Leu Thr Ser
                85

<210> 1940
<211> 223
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1940
Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
 1   5   10   15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
             20   25   30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
         35   40   45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
     50   55   60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn
 65   70   75   80

Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg
                 85   90   95

Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala
                100   105   110

Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu
            115   120   125

Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp
        130   135   140

1447

```
Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Pro Ser Xaa Ala
145                 150             155             160

Asp Ala Pro Glu Val Gln Arg Gly Leu Gln Ala Cys Leu Leu Ser Pro
            165             170             175

Lys Leu Pro Leu Arg Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala
        180             185             190

Ser Pro Asp Gln Asn Gly Asp Thr Trp Asp Leu Lys Lys Phe Ser Xaa
        195             200             205

Thr Pro Pro Leu Gly Lys Ala Trp Glu Xaa Leu Leu Xaa Gly Thr
    210             215             220
```

<210> 1941
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1941
```
Ser Pro Lys Xaa Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val
  1             5               10              15

Leu Xaa Ala Arg Thr Lys Arg Xaa His Leu Val Leu Lys Ser Phe Lys
            20              25              30

Asp Thr Pro Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val
        35              40              45
```

Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val
    50   55   60

Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp
 65   70   75   80

Leu Lys Val Ala Thr Ser Leu Leu Leu Leu Phe Ala Ile Phe Met
                 85   90   95

Gly Leu Arg Ala Ser Lys Cys Arg Ala Ala Leu Xaa Ser Cys Thr Gly
             100   105   110

Cys Ser Pro Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp
         115   120   125

Thr Gln Leu Val Ser Ala Cys Gln Asn Ala Cys Pro Val Ser Arg Leu
    130   135   140

Ser Gln Pro Arg Gly Glu Leu Pro Phe Thr Asp Ser Ser Gln Gly Trp
145   150   155   160

His Arg Pro Gln Glu Cys Arg Leu Val
                165

<210> 1942
<211> 327
<212> PRT
<213> Homo sapiens

<400> 1942
Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
  1   5   10   15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
             20   25   30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
         35   40   45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
    50   55   60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn
 65   70   75   80

Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg
             85   90   95

Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala

```
            100                 105                 110

Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu
        115                 120                 125

Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp
        130                 135                 140

Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Arg Val Gly Gln
145                 150                 155                 160

Met Pro Leu Lys Ser Ser Val Gly Ser Arg Arg Val Phe Phe Thr Lys
                165                 170                 175

Leu Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala Ala
                180                 185                 190

Arg Thr Lys Arg Gly His Leu Val Leu Lys Ser Phe Lys Asp Thr Pro
            195                 200                 205

Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val Arg Thr Pro
        210                 215                 220

Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val Ser Gly Val
225                 230                 235                 240

Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp Leu Lys Val
                245                 250                 255

Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met Gly Leu Arg
            260                 265                 270

Ala Ser Lys Cys Arg Ala Ala Leu Asn Ser Cys Thr Gly Cys Ser Pro
        275                 280                 285

Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp Thr Gln Leu
    290                 295                 300

Val Leu Arg Leu Pro Lys Cys Val Ser Cys Leu Glu Ala Glu Ser Ala
305                 310                 315                 320

Gln Arg Gly Ala Ala Phe Tyr
                325


<210> 1943
<211> 118
<212> PRT
<213> Homo sapiens

<400> 1943
```

Met Lys Asp Leu Trp Phe Leu Leu Leu Val Val Ala Ala Pro Thr Trp
 1   5   10   15

Val Leu Ser Gln Val Arg Leu Gln Glu Ser Gly Pro Gly Leu Val Ser
            20   25   30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ile Asn Ile
            35   40   45

Gly Gly Gly Lys Tyr Tyr Trp Ala Trp Val Arg Gln Arg Pro Gly Glu
        50   55   60

Gly Pro Glu Trp Val Gly Tyr Ile Ser Tyr Thr Gly Val Ala Asp Tyr
 65   70   75   80

Asn Pro Ser Leu Arg Gly Arg Leu Thr Ile Ser Leu Gly Glu Ser Asn
                85   90   95

Ser Phe Ser Leu Thr Leu Thr Ser Met Thr Ala Ala Asp Ala Val Val
            100   105   110

Tyr Tyr Cys Ala Thr Asp
            115

<210> 1944
<211> 174
<212> PRT
<213> Homo sapiens

<400> 1944
Lys Gly Val Phe Tyr Phe Phe Ile Phe Tyr Leu Pro Leu Phe Ser Trp
 1   5   10   15

Leu Cys Ser Arg Val Cys Val Phe Ala Cys Leu Leu Ser Cys Ser Phe
            20   25   30

Phe Phe Trp Met Lys Thr Pro Ala Phe Pro Asp Ser Pro Pro Ser Ser
            35   40   45

Val Leu Gln Phe Ser Glu Lys Ser Trp Asp Met Trp Glu Gly Ala Trp
        50   55   60

Glu Leu Gly Ser Leu Arg Leu Pro Gly Arg Gln Phe Arg Leu Cys Arg
 65   70   75   80

Lys Glu Gln Ser Pro Trp Glu Ala Leu Gly Glu Gly Gly Ala Ala Gly
                85   90   95

Pro Ala Arg Met Val Leu Pro Ala Thr Gly Gly Leu Arg Val Val Ser
            100   105   110

```
Ala Pro Cys Ile Ser Pro Ser Leu Leu Thr Phe Leu Leu Cys Phe Pro
        115                 120                 125

Pro Ser Val Cys Gln Arg Gly Gly Thr Gly Asn Arg Thr Ala Val Ala
        130                 135                 140

Ala Leu Ser Leu Leu Ser Thr Val Tyr Ser Gly Leu Ser Gly Asp Ser
145                 150                 155                 160

Arg Glu Pro Gly His Leu Ala Ala Val Arg Pro Leu Asn Leu
                165                 170
```

<210> 1945
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1945
```
Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
 1               5                  10                  15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro
                20                  25                  30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
        35                  40                  45

Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
    50                  55                  60

Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
 65                 70                  75                  80

Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
                85                  90                  95

Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
            100                 105                 110
```

1452

```
Leu Gln Xaa Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
        115             120             125

Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Xaa Ile
        130             135             140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Arg Ala Glu Glu
145             150             155             160

Val Val
```


```
<210> 1946
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1946
Glu Glu Pro Gln Asp His Thr His Ser Pro Tyr Pro Pro Gln Asp Tyr
 1               5               10              15

Arg Thr Phe Trp His Thr Leu Tyr Arg Val Leu Gly Phe Thr Pro Gln
            20              25              30

Asn Asp Pro Thr Met Ser Thr His His Gln Asn Pro Ala Asn Gly Pro
        35              40              45

Pro Leu Pro Pro Ser Pro Asp Ala Glu Met Xaa Met Gly Ser Trp Arg
    50              55              60

Val Gly Ser Glu Met Lys Gly Thr Pro Gln Trp Ala Ala Gly Pro Ile
65              70              75              80

Phe Pro Lys Pro Cys His Tyr Leu Cys Glu Gly Gly Gln Val Ala Glu
            85              90              95

Gly Ser Gly Cys Arg Leu Leu Tyr Pro Leu Cys Leu Lys His Pro Pro
        100             105             110

His Arg Ala Leu Val Phe Thr Arg Phe Val Leu Asp Ser Leu Asn Gly
```

1453

```
       115                   120                   125

Asn Xaa Ile Pro Trp Leu Arg Ala Lys Thr Thr Thr Tyr Gln Cys Pro
    130                   135             140


Cys Pro Phe Gln Leu Thr Leu Ser Ser Leu Arg Ser Ser Leu Ser Leu
145                   150             155                   160


Trp Lys Gly His Pro Ser Gln Gly Arg Asn Ala Trp Ser
                  165             170
```

<210> 1947
<211> 407
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (357)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1947
```
Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
  1               5                  10                  15


Leu Phe Val Thr Pro Leu Leu Leu Pro Leu Val Ile Leu Met Pro
                 20                  25                  30


Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
             35                  40                  45


Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
         50                  55                  60


Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
 65                  70                  75                  80


Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
                 85                  90                  95


Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
             100                 105                 110


Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
         115                 120                 125
```

```
Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile
    130             135             140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg
145             150             155             160

Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser Ile Gly
                165             170             175

Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu Leu Gly
                180             185             190

Xaa Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn Phe Ala
        195             200             205

Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu Leu Phe
    210             215             220

Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr Val Ser
225             230             235             240

Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile Val Pro
            245             250             255

Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu Glu Arg
        260             265             270

Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val Thr Gln
        275             280             285

Glu Lys Val Pro Trp Gly Ile Val Leu Leu Leu Gly Gly Gly Phe Ala
    290             295             300

Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys
305             310             315             320

Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile
            325             330             335

Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala
        340             345             350

Thr Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys Thr Gly
        355             360             365

Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn
    370             375             380

Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala
385             390             395             400


                              1455
```

Asn Val Thr His Ile Glu Thr
                405

<210> 1948
<211> 162
<212> PRT
<213> Homo sapiens

<400> 1948
Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
  1   5   10   15

Leu Phe Val Thr Pro Leu Leu Leu Pro Leu Val Ile Leu Met Pro
               20   25   30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
           35   40   45

Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
        50   55   60

Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
 65   70   75   80

Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
               85   90   95

Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
           100   105   110

Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
           115   120   125

Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile
       130   135   140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg
145   150   155   160

Leu Cys

<210> 1949
<211> 377
<212> PRT
<213> Homo sapiens

<220>

1456

<221> SITE
<222> (327)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1949
Met Pro Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu
 1   5   10   15

Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu
            20   25   30

His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro
        35   40   45

Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met
        50   55   60

Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu
65   70   75   80

Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly
                85   90   95

Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln
            100   105   110

Val Ile Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg
        115   120   125

Lys Arg Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser
        130   135   140

Ile Gly Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu
145   150   155   160

Leu Gly Gln Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn
                165   170   175

Phe Ala Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu
            180   185   190

Leu Phe Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr
            195   200   205

Val Ser Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile
        210   215   220

Val Pro Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu
225   230   235   240

Glu Arg Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val
                245   250   255

1457

```
Thr Gln Glu Lys Val Pro Trp Gly Ile Val Leu Leu Leu Gly Gly Gly
            260             265             270

Phe Ala Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met
            275             280             285

Gly Lys Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr
            290             295             300

Leu Ile Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn
305             310             315             320

Val Ala Thr Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys
            325             330             335

Thr Gly Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala
            340             345             350

Val Asn Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp
            355             360             365

Trp Ala Asn Val Thr His Ile Glu Thr
    370             375
```

<210> 1950
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1950
```
Met Ser Leu Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg
  1             5             10              15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser
```

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu
        35   40   45

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Xaa Asp
    50   55   60

Ser Asp Pro His Gly Pro His Thr Cys Xaa His Val Leu Asn Val Ile
65   70   75   80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu
                85   90   95

Ala Leu Gly Tyr Lys Leu Xaa Cys
                100

<210> 1951
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1951
Gln Val Pro Met Ser Trp Thr Pro Thr Ser Cys Ser Cys Gly Leu Gly
  1   5   10   15

Asp Gly Ile Gly His Ile Leu Gly Val Gln Arg Arg Pro Thr Arg Ala
                20   25   30

Arg Ser Asp Gly Arg Ala Ser Gln Thr Gly Arg Trp Gly Leu Pro Pro
        35   40   45

Thr Pro Glu Asp Glu Asp Lys Pro Leu Gly Gln Phe Ser Val Pro Val
    50   55   60

Leu Leu Pro Trp Ala Ala Ser Leu Leu Ser Pro Ser Pro Cys Phe Phe
 65   70   75   80

Leu

<210> 1952
<211> 295
<212> PRT
<213> Homo sapiens

<400> 1952
Met Ser Leu Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg

```
     1                    5                        10                          15

   Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser
               20                      25                  30

   Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu
               35                      40                  45

   Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Ala Asp
           50                      55                  60

   Ser Asp Pro His Gly Pro His Thr Cys Gly His Val Leu Asn Val Ile
   65                      70                  75                      80

   Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu
                   85                      90                      95

   Ala Leu Gly Tyr Gln Ala Val Val Leu Ser Ala Ala Met Gln Gly Asp
               100                     105                 110

   Val Lys Ser Met Ala Gln Phe Tyr Gly Leu Leu Ala His Val Ala Arg
               115                     120                 125

   Thr Arg Leu Thr Pro Ser Met Ala Gly Ala Ser Val Glu Glu Asp Ala
           130                     135                 140

   Gln Leu His Glu Leu Ala Ala Glu Leu Gln Ile Pro Asp Leu Gln Leu
   145                     150                     155                 160

   Glu Glu Ala Leu Glu Thr Met Ala Trp Gly Arg Gly Pro Val Cys Leu
                   165                     170                 175

   Leu Ala Gly Gly Glu Pro Thr Val Gln Leu Gln Gly Ser Gly Arg Gly
               180                     185                 190

   Gly Arg Asn Gln Glu Leu Ala Leu Arg Val Gly Ala Glu Leu Arg Arg
               195                     200                 205

   Trp Pro Leu Gly Pro Ile Asp Val Leu Phe Leu Ser Gly Gly Thr Asp
       210                     215                 220

   Gly Gln Asp Gly Pro Thr Glu Ala Ala Gly Ala Trp Val Thr Pro Glu
   225                     230                 235                 240

   Leu Ala Ser Gln Ala Ala Ala Glu Gly Leu Asp Ile Ala Thr Phe Leu
                   245                     250                 255

   Ala His Asn Asp Ser His Thr Phe Phe Cys Cys Leu Gln Gly Gly Ala
               260                     265                 270

   His Leu Leu His Thr Gly Met Thr Gly Thr Asn Val Met Asp Thr His
               275                     280                 285


                                   1460
```

Leu Leu Phe Leu Arg Pro Arg
   290   295

<210> 1953
<211> 116
<212> PRT
<213> Homo sapiens

<400> 1953
Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
  1   5   10   15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
              20   25   30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
          35   40   45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
      50   55   60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
 65   70   75   80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
                  85   90   95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
              100   105   110

Arg Leu Cys Pro
          115

<210> 1954
<211> 116
<212> PRT
<213> Homo sapiens

<400> 1954
Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
  1   5   10   15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
              20   25   30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
          35   40   45

1461

```
Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
    50                  55                  60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
65                  70                  75                  80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
                85                  90                  95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
            100                 105                 110

Arg Leu Cys Pro
        115


<210> 1955
<211> 116
<212> PRT
<213> Homo sapiens

<400> 1955
Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys
 1               5                  10                  15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro
            20                  25                  30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu
            35                  40                  45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly
    50                  55                  60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys
65                  70                  75                  80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp
                85                  90                  95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
            100                 105                 110

Arg Leu Cys Pro
        115


<210> 1956
<211> 82
```

1462

<212> PRT
<213> Homo sapiens

<400> 1956
Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe
 1   5   10   15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val
            20   25   30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro
            35   40   45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
        50   55   60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys
 65   70   75   80

Gly Leu

<210> 1957
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1957
Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe
 1   5   10   15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val
            20   25   30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro
            35   40   45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
        50   55   60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys
 65   70   75   80

Gly Leu

<210> 1958
<211> 18

1463

<210> PRT
<213> Homo sapiens

<400> 1958
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
 1   5   10   15

Thr Cys

<210> 1959
<211> 18
<212> PRT
<213> Homo sapiens

<400> 1959
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
 1   5   10   15

Thr Cys

<210> 1960
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1960
Met Ser Met Ala Met Gly Ser Xaa Thr Leu Leu Leu Gly Trp Gly Pro
 1   5   10   15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
            20   25   30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
            35   40

<210> 1961
<211> 79
<212> PRT
<213> Homo sapiens

1464

<400> 1961
Ala Glu His His Gln Leu Ser Gln Val Leu Val Thr Cys Leu Gly Thr
1   5   10   15

Cys Met Glu Pro Glu Pro Leu Thr Pro His Pro Arg His Tyr Leu Gly
                20   25   30

Asp Ala Gln Asp Lys Cys Ser Asn Asp Cys Met His Cys Leu Ser Ile
            35   40   45

Gly Gln His Glu Leu Pro Ser Tyr Ser Cys Gln Pro Gly Arg Lys Arg
        50   55   60

Leu Leu Pro His His Ser Gln Pro Ser Phe Pro Leu Ala Ser Thr
65   70   75

<210> 1962
<211> 305
<212> PRT
<213> Homo sapiens

<400> 1962
Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
1   5   10   15

Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
                20   25   30

Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
        35   40   45

Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
        50   55   60

Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
65   70   75   80

Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu Lys Gln
                85   90   95

Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu Phe Ser
            100   105   110

Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn Gly Glu
            115   120   125

Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr Pro Tyr
        130   135   140

1465

```
Met Thr Ile Val Ala Phe Leu Val Tyr Phe Ile Pro Leu Thr Ile Ile
145             150             155             160

Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys Ser Lys
            165             170             175

Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu Cys Ser
            180             185             190

Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala Ile Lys
            195             200             205

Tyr Ser Ile Ile Ile Ile Leu Ala Phe Ile Cys Cys Trp Ser Pro Tyr
    210             215             220

Phe Leu Phe Asp Ile Leu Asp Asn Phe Asn Leu Leu Pro Asp Thr Gln
225             230             235             240

Glu Arg Phe Tyr Ala Ser Val Ile Ile Gln Asn Leu Pro Ala Leu Asn
            245             250             255

Ser Ala Ile Asn Pro Leu Ile Tyr Cys Val Phe Ser Ser Ser Ile Ser
            260             265             270

Phe Pro Cys Arg Glu Gln Arg Ser Gln Asp Ser Arg Met Thr Phe Arg
            275             280             285

Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro Glu Phe
            290             295             300

Ile
305


<210> 1963
<211> 43
<212> PRT
<213> Homo sapiens

<400> 1963
Met Ser Met Ala Met Gly Ser Ser Thr Leu Leu Leu Gly Trp Gly Pro
  1             5               10              15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
            20              25              30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
            35              40
```

<210> 1964
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1964
Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1   5   10   15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
            20   25   30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
        35   40   45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
    50   55   60

Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65   70   75   80

Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
            85   90   95

Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly
            100   105   110

Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
        115   120   125

Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
    130   135   140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
145   150   155   160

Leu

<210> 1965
<211> 161
<212> PRT
<213> Homo sapiens

<400> 1965

```
Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1               5                  10                  15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
            20              25                  30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
        35              40                  45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
    50              55                  60

Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
65                  70              75                      80

Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
            85              90                  ·95

Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly
            100             105             110

Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
        115             120             125

Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
    130             135             140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
145             150             155             160

Leu


<210> 1966
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1966
Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu
 1               5                  10                  15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
            20              25                  30
```

1468

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Xaa Ala Ala Tyr Phe
        35   40   45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val
    50   55   60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala
65   70   75   80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser
                85   90

<210> 1967
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1967
Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu
 1   5   10   15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His
                20   25   30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Ser Ala Ala Tyr Phe
        35   40   45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val
    50   55   60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala
65   70   75   80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser
                85   90

<210> 1968
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1968
Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser

1469

```
      Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
                      20                      25                      30


      Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
                  35                      40                      45


      Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
              50                      55                      60


      Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Asn Glu
      65                      70                      75                      80


      Arg Leu Glu Leu Ala Ser Trp Trp Met Ile Arg Pro Ala Trp Ala Lys
                          85                      90                      95


      Ser Thr Ser Ala Ala Ser Ser Cys Ser Ser Ala Ser Cys Cys Pro Thr
                      100                     105                     110


      Phe Pro Trp Trp Pro Arg Ala Pro Arg Gly His Ser
                  115                     120
```

```
<210> 1969
<211> 230
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1969
Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
  1               5                       10                      15


Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
                20                      25                      30
```

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
            35   40   45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
        50   55   60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Xaa Glu
65   70   75   80

Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu
                85   90   95

Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp
            100   105   110

Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser
        115   120   125

Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg
    130   135   140

Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile
145   150   155   160

Ser Tyr Arg Gly Xaa Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala
                165   170   175

Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe
                180   185   190

Leu Ile Thr Asp Gly Tyr Ser Lys Gly Glu Thr Leu Ala Gln Leu Gln
        195   200   205

Arg His Cys Glu Ile Gln Glu Trp Arg Ser Ser Leu Leu Ala Tyr Gly
    210   215   220

Lys Gly Thr Phe Glu Ser
225   230

<210> 1970
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1970
Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
  1   5   10   15

Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
            20   25   30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
        35   40   45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
    50   55   60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Arg
65   70   75   80

Ala Pro Gly Ala Cys Leu Pro Gly Gly
                85

<210> 1971
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1971
Met His Val Lys Trp Xaa Leu Ile Met Phe Leu Ile Cys Ile Ser Leu
  1   5   10   15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr
            20   25   30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe
        35   40   45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Xaa Phe Val Tyr Ser
    50   55   60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser
65   70   75   80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala
            85   90   95

Gln Thr Phe

1472

<210> 1972
<211> 99
<212> PRT
<213> Homo sapiens

<400> 1972
Met His Val Lys Trp Tyr Leu Ile Met Phe Leu Ile Cys Ile Ser Leu
1   5   10   15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr
            20   25   30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe
            35   40   45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Phe Phe Val Tyr Ser
        50   55   60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser
65   70   75   80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala
                85   90   95

Gln Thr Phe

<210> 1973
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1973
Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
1   5   10   15

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
            20   25   30

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
            35   40   45

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
        50   55   60

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
65   70   75   80

1473

```
Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
              85                    90                    95

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
            100              105              110

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
            115              120              125

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
        130              135              140

Phe Ile Lys Phe Ala Ala Leu Cys Lys
145              150


<210> 1974
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1974
Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
  1               5                  10                    15

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
              20                  25                    30

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
            35              40              45

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
        50              55              60

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
 65              70              75                          80

Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
              85                    90                    95

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
            100              105              110

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
            115              120              125

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
        130              135              140

Phe Ile Lys Phe Ala Ala Leu Cys Lys
145              150
```

<210> 1975
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1975
Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
 1   5   10   15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
            20   25   30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
        35   40   45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
        50   55   60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
 65   70   75   80

Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Gly Lys Gln Glu Pro
                85   90   95

1475

```
Gln Thr Xaa Ser Ser Pro Lys Pro Thr Xaa Arg Arg Glu Val Ser Arg
        100                 105                 110

Asn Glu Leu Asn Pro Val Ile Pro Xaa Ala Xaa Asn Pro Phe Xaa Lys
        115                 120                 125

Lys




<210> 1976
<211> 467
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1976
Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly
  1               5                   10                  15

Asp Asn Ser Thr Asp Thr Thr Gln Gly Asp Pro Leu Ser Ile His His
            20                  25                  30

Tyr Phe His Gly Tyr Leu Ala Gly Phe Ser Val Arg Ser Gly Arg Leu
        35                  40                  45

Glu Ser Arg Glu Val Ile Glu Cys Leu Tyr Ala Cys Arg Glu Gly Leu
    50                  55                  60

Asp Tyr Arg Asp Phe Glu Ser Leu Gly Lys Gly Met Lys Val His Val
 65                  70                  75                  80

Asn Pro Ser Gln Ser Leu Leu Thr Leu Glu Gly Asp Asp Val Glu Thr
                85                  90                  95

Phe Asn His Ala Leu Gln His Val Ala Tyr Met Asn Thr Leu Arg Phe
            100                 105                 110

Ala Thr Pro Gly Val Arg Pro Leu Arg Leu Thr Thr Ala Val Lys Cys
            115                 120                 125

Phe Ser Glu Glu Ser Cys Val Ser Ile Pro Glu Val Glu Gly Tyr Val
```

1476

```
                130                      135                      140

Val Val Leu Gln Pro Asp Xaa Pro Gln Ile Leu Leu Ser Gly Thr Xaa
145                 150                 155                 160

His Phe Ala Arg Pro Ala Val Asp Phe Glu Gly Thr Asn Gly Val Pro
            165                 170                 175

Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser Ile Ser His Gln Val Glu
            180                 185                 190

Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr Val Thr Asp Thr Arg Met
        195                 200                 205

Ser Asp Glu Ile Val His Asn Leu Asp Gly Cys Glu Ile Ser Leu Val
        210                 215                 220

Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr
225                 230                 235                 240

Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr Asn Thr Ser Ala Tyr Leu
                245                 250                 255

Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu Glu Ile Leu Arg
            260                 265                 270

Gln Ala Arg Tyr Arg Leu Arg His Gly Ala Ala Leu Tyr Thr Arg Lys
        275                 280                 285

Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu
    290                 295                 300

Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His
305                 310                 315                 320

Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln
            325                 330                 335

Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn
            340                 345                 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly
        355                 360                 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu
    370                 375                 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp
385                 390                 395                 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile
            405                 410                 415


                                1477
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Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly
            420                 425                 430

Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Asp Ser Glu Val
            435             440             445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro
    450             455             460

His Arg Tyr
465
```

<210> 1977
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1977
```
Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
  1             5                 10                  15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
            20              25              30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
            35              40              45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
    50              55                  60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
 65                 70                  75                  80

Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Xaa Lys Gln Glu Pro
```

Gln Thr Ser Ser Ser Pro Lys Pro Thr Arg Arg Arg Glu Val Ser Arg
            100   105   110

Xaa Glu Leu Xaa Pro Val Ile Pro Ser Ala Ala Thr Leu Ile Ile Val
            115   120   125

Val Cys Val Gly Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg
    130   135   140

Ile His Ser Leu His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly
145   150   155   160

Ala Ser Ser Asp Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala
            165   170   175

Leu Thr Ile Ile Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser
            180   185   190

Cys Val Thr Gly Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser
            195   200   205

Asp Ser Glu Val Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile
    210   215   220

Glu Thr Pro Pro His Arg Tyr
225   230

<210> 1978
<211> 145
<212> PRT
<213> Homo sapiens

<400> 1978
Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp Asn
  1   5   10   15

Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile
            20   25   30

Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg
            35   40   45

Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr
    50   55   60

Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu
  65   70   75   80

Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser
                    85   90   95

His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu
                100   105   110

Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro
            115   120   125

Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val
    130   135   140

Cys
145

<210> 1979
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1979
Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly
  1   5   10   15

Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln
                20   25   30

Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr Phe Cys Ile Ile
            35   40   45

Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu Leu Ser Arg Tyr
    50   55   60

Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser His Gly Tyr Gly
 65   70   75   80

Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu Thr Leu Ile Ser
                85   90   95

Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro Val Pro Arg Thr
                100   105   110

Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val Cys
            115   120   125

<210> 1980
<211> 146
<212> PRT

1480

<213> Homo sapiens

<400> 1980
Val Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp
 1   5   10   15

Asn Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala
              20   25   30

Ile Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp
          35   40   45

Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly
      50   55   60

Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe
 65   70   75   80

Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile
              85   90   95

Ser His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly
             100   105   110

Leu Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln
             115   120   125

Pro Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr
     130   135   140

Val Cys
145

<210> 1981
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1981
Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln
 1   5   10   15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
              20   25   30

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Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met
        35   40   45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
        50   55   60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
65   70   75   80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
                85   90   95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
            100   105

<210> 1982
<211> 109
<212> PRT
<213> Homo sapiens

<400> 1982
Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln
1   5   10   15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
            20   25   30

Ser Val Arg Arg Ile Asn Tyr Val Phe Leu Ile Tyr Lys Lys Gly Met
        35   40   45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
        50   55   60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
65   70   75   80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
                85   90   95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
            100   105

<210> 1983
<211> 109
<212> PRT
<213> Homo sapiens

<220>

1482

<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1983
Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln
 1   5   10   15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser
            20   25   30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met
            35   40   45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn
        50   55   60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
 65   70   75   80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
                85   90   95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro
                100   105

<210> 1984
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1984
Gly Ala Cys Arg Gly Ser Ser Glu Pro Gly Ala Thr Pro Arg Pro Asp
 1   5   10   15

Gly Glu Pro Arg Pro Leu Pro Gly Leu His Cys Ala Xaa Gly Met Pro
              20   25   30

Thr Pro Leu Pro Xaa Ser Pro Leu Gly Leu Arg Ser Leu Arg Arg Val
              35   40   45

Gly Trp Pro Val Arg Lys Gly Arg Val Gly Arg Ala Trp Gly Trp Ala
    50   55   60

Gly Leu Cys Glu Glu Leu Gln Pro Gln Ala Pro Pro Cys His Glu Ser
65   70   75   80

Lys Arg Gly Arg Gly Ala Val Ala His Asp Cys Asn Pro Ser Thr Leu
              85   90   95

Gly Gly Xaa Ser Gly Gln Ile Thr Arg Ser Gly Val
              100   105

<210> 1985
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1985
Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe
  1   5   10   15

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His
              20   25   30

His Leu Leu Ala Xaa Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val
              35   40   45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val
    50   55   60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys
65   70   75   80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp
              85   90   95

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile
              100   105   110

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg
        115   120   125

Leu Pro
    130

<210> 1986
<211> 16
<212> PRT
<213> Homo sapiens

<400> 1986
Pro Ala Ser Gln Lys Ala Val Ser Ala Trp Arg Cys Pro Ala His Val
 1   5   10   15

<210> 1987
<211> 130
<212> PRT
<213> Homo sapiens

<400> 1987
Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe
 1   5   10   15

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His
            20   25   30

His Leu Leu Ala Cys Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val
            35   40   45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val
    50   55   60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys
65   70   75   80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp
                85   90   95

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile
            100   105   110

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg
            115   120   125

1485

Leu Pro
    130

<210> 1988
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1988
Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp
  1   5   10   15

Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala
              20   25   30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys
          35   40   45

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp
      50   55   60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
 65   70   75   80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg
              85   90   95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro
              100   105   110

```
Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys
        115             120             125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met
        130             135             140

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile
145             150             155             160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa
                165             170             175

Leu Tyr Cys Leu Xaa Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys
            180             185             190

Tyr Trp Xaa Gly Glu Leu Pro Xaa Val Ala
        195             200
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```
<400> 1989
Lys Pro Asn Gly Lys Asn Ile Ser Phe His Ser Ser Tyr Gln Val Lys
  1             5               10              15

Gly Asn Ser Glu Asn Phe Leu Arg Val Phe Asn Ser Pro Thr Lys Ile
            20              25              30

Ile Asn His Ile Tyr Arg Ala Phe Leu Val Leu Lys Gly Ile Lys Leu
            35              40              45

His Leu Leu Leu Val Cys Val Cys Ile Cys Glu His Val Gln His Ile
        50              55              60

Tyr Thr Lys Phe Cys Tyr Ser Val Lys Ile Arg Ala Lys Asn Leu Lys
65              70              75              80

Pro Leu Phe Asn Tyr Ala Phe Pro Leu Asn Ser Asn Leu Asn Ile Cys
                85              90              95
```

<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1990
Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp
 1   5   10   15

Val Pro Val Leu Val Ile Val Leu Val Leu Trp Ser Tyr Tyr Ala
            20   25   30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys
        35   40   45

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp
    50   55   60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
65   70   75   80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg
            85   90   95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro
            100   105   110

Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys
    115   120   125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met
    130   135   140

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile
145   150   155   160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa
            165   170   175

Leu Tyr Cys Leu Tyr Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys
        180   185   190

Tyr Trp Arg Gly Glu Leu Pro Ser Val Arg Ser Lys Phe His Val Leu
        195   200   205

Phe Leu Leu Phe Val Ala Cys Met Phe Phe Val Ser Leu Val Ile Leu
    210   215   220

Phe Gly Tyr His Cys Trp Leu Val Ser Arg Asn Lys Thr Thr Leu Glu
225   230   235   240

1488

```
Ala Phe Cys Thr Pro Val Phe Thr Ser Gly Pro Glu Lys Asn Gly Phe
                245                     250                 255

Asn Leu Gly Phe Ile Lys Asn Ile Gln Gln Val Phe Gly Asp Lys Lys
                260             265                 270

Lys Phe Trp Leu Ile Pro Ile Gly Ser Ser Pro Gly Asp Gly His Ser
            275             280             285

Phe Pro Met Arg Ser Met Asn Glu Ser Gln Asn Pro Leu Leu Ala Asn
    290                 295                 300

Glu Glu Thr Trp Glu Asp Asn Glu Asp Asp Asn Gln Asp Tyr Pro Glu
305                     310                 315                 320

Gly Ser Ser Ser Leu Ala Val Glu Thr Glu Thr
                325                 330


<210> 1991
<211> 235
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1991
Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
  1               5                   10                  15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
                20                  25                  30
```

```
Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
        35                  40                  45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
        50                  55                  60

Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys
65                  70                  75                  80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
                85                  90                  95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
                100                 105                 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
        115                 120                 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
        130                 135                 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
145                 150                 155                 160

Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Xaa Pro Trp Phe Gln Val
                165                 170                 175

Asp Ala Gly His Pro Thr Arg Phe Leu Gly Gly Ile Thr Gln Gly Lys
                180                 185                 190

Glu Leu Leu Ser Gly Gly Glu Gly Arg Leu Thr Leu Xaa Gln Glu Val
        195                 200                 205

Gln Xaa Gly Leu Gly Leu Gly Ser Pro Gly Gly Thr Xaa Asp Leu Ser
        210                 215                 220

Ser Pro Phe Leu Ala Gly Met Met Gly Ser His
225                 230                 235
```

<210> 1992
<211> 197
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1992
Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
 1   5   10   15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
            20   25   30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
            35   40   45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
    50   55   60

Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys
65   70   75   80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
            85   90   95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
            100   105   110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
        115   120   125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
    130   135   140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
145   150   155   160

Gly Ala Trp Cys Ala Glu Glu Gln Xaa Ala Asp Pro Trp Phe Gln Val
            165   170   175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Xaa Ile Thr Gln Gly Arg
            180   185   190

Asn Xaa Val Trp Arg
    195

<210> 1993
<211> 197
<212> PRT
<213> Homo sapiens

<400> 1993
Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
 1   5   10   15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
                20   25   30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro
            35   40   45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
        50   55   60

Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys
65   70   75   80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu
                85   90   95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu
                100   105   110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser
            115   120   125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg
        130   135   140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp
145   150   155   160

Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Asp Pro Trp Phe Gln Val
                165   170   175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Val Ile Thr Gln Gly Arg
                180   185   190

Asn Ser Val Trp Arg
            195

<210> 1994
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (230)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1994
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1   5   10   15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
            20   25   30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
            35   40   45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
        50   55   60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65   70   75   80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
                85   90   95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
            100   105   110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
            115   120   125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
        130   135   140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
145   150   155   160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
                165   170   175

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
            180   185   190

1493

```
Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
        195                 200                 205

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Gly Tyr Ser Leu
        210                 215                 220

Arg Pro Ala Lys Xaa Xaa Cys His Ser Glu Thr Xaa Trp Val Ser Lys
225                 230                 235                 240

Pro
```

<210> 1995
<211> 340
<212> PRT
<213> Homo sapiens

<400> 1995

```
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1               5                   10                  15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
            20                  25                  30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
            35                  40                  45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
        50                  55                  60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65                  70                  75                  80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
                85                  90                  95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
            100                 105                 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
            115                 120                 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
            130                 135                 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
145                 150                 155                 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
                165                 170                 175
```

1494

```
Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
            180                 185                 190

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
            195                 200                 205

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr
    210                 215                 220

Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala
225                 230                 235                 240

Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg
            245                 250                 255

Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile
            260                 265                 270

His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro
            275                 280                 285

Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His
            290                 295                 300

Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp
305                 310                 315                 320

Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser
            325                 330                 335

Ile Lys Glu Lys
            340


<210> 1996
<211> 85
<212> PRT
<213> Homo sapiens

<400> 1996
Met Ser Pro Pro Pro Pro Leu Leu Leu Leu Leu Leu Ser Leu Ala
  1           5                 10                  15

Leu Leu Gly Ala Arg Ala Arg Ala Glu Pro Ala Gly Ser Ala Val Pro
            20                  25                  30

Ala Gln Ser Arg Pro Cys Val Asp Cys His Ala Phe Glu Phe Met Gln
            35                  40                  45

Arg Ala Leu Gln Asp Leu Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg
```

1495

```
         50                    55                    60

Thr Glu Thr Leu Leu Leu Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys
  65                    70                    75                    80

Trp Pro Ala Gly His
                    85


<210> 1997
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1997
Met Ala Pro Pro Pro Ala Cys Arg Ser Pro Met Ser Pro Pro Pro Pro
  1                    5                    10                    15

Leu Leu Leu Leu Leu Leu Leu Ser Leu Ala Leu Leu Gly Ala Arg Ala
                    20                    25                    30

Arg Ala Glu Pro Ala Gly Ser Ala Val Pro Ala Gln Ser Arg Pro Cys
            35                    40                    45

Val Asp Cys His Ala Phe Glu Phe Met Gln Arg Ala Leu Gln Asp Leu
            50                    55                    60

Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg Thr Glu Thr Leu Leu Leu
  65                    70                    75                    80

Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys Trp Pro Ala Gly His
                    85                    90                    95


<210> 1998
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1998
```
Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
 1               5                  10                  15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val
            20                  25                  30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr
        35                  40                  45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala
     50                  55                  60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Xaa Xaa Xaa
 65                  70                  75                  80

Gly Val Val Xaa
```

<210> 1999
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1999
```
Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
 1               5                  10                  15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val
            20                  25                  30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr
        35                  40                  45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala
     50                  55                  60
```

```
Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Val Leu Lys Lys Lys
 65              70              75                      80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
             85              90                      95

Lys Lys Lys Lys Lys Lys Lys Lys Lys
         100             105
```

<210> 2000
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2000
```
Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His
 1               5               10                      15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val
             20              25                      30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr
         35              40                      45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala
     50              55                      60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Lys Lys Lys
 65              70              75                      80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
             85              90                      95

Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys
         100             105
```

<210> 2001

<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2001
Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu
 1   5   10   15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe
             20   25   30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu
         35   40   45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Xaa Tyr Ser
     50   55   60

Asp Asn Ile Leu Val Ser Pro Ser Leu Tyr Leu
 65   70   75

<210> 2002
<211> 75
<212> PRT
<213> Homo sapiens

<400> 2002
Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu
 1   5   10   15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe
             20   25   30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu
         35   40   45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Leu Tyr Ser
     50   55   60

Asp Asn Ile Leu Phe Ser Pro Ser Leu Tyr Leu
 65   70   75

<210> 2003
<211> 147

1499

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2003
Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
  1   5   10   15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
               20   25   30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
           35   40   45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
       50   55   60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
 65   70   75   80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
               85   90   95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
               100   105   110

Asn Ala Arg Leu Asp Ser Xaa Gln Leu Pro Gly Pro Pro Gly Phe Ser
           115   120   125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
       130   135   140

Lys Leu Thr
145

<210> 2004
<211> 147
<212> PRT
<213> Homo sapiens

<400> 2004
Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
  1   5   10   15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
               20   25   30

1500

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
        35   40   45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
        50   55   60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
 65   70   75   80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
                85   90   95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro
                100   105   110

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser
        115   120   125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
        130   135   140

Lys Leu Thr
145

<210> 2005
<211> 147
<212> PRT
<213> Homo sapiens

<400> 2005
Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
 1   5   10   15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu
        20   25   30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
        35   40   45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser
        50   55   60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu
 65   70   75   80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu
                85   90   95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro

1501

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser
    115   120   125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr
    130   135   140

Lys Leu Thr
145

<210> 2006
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2006
Gln Gly Tyr Phe Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu
  1   5   10   15

Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His
            20   25   30

Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr
        35   40   45

Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro
    50   55   60

Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile
 65   70   75   80

Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala
            85   90   95

Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val
            100   105   110

Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu
    115   120   125

<210> 2007
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2007

```
Lys Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
 1               5                  10                  15

Arg Pro Gly Asp Leu Trp Pro Thr Xaa Xaa Val Cys Val Thr Ser Ser
            20                  25                  30

Leu Xaa Cys Thr Leu Glu Asn Gly Val Pro Cys Val Ile Gln Glu Ser
        35                  40                  45

Ala Pro Val His Asn Ser Phe Ile Asp Trp Ser Ala Thr Cys Glu Gly
    50                  55                  60

Gln Phe Ser Ser Ala Tyr Cys Pro Leu Glu Leu Asn Asp Tyr Asn Ala
65                  70                  75                  80

Phe Pro Glu Glu Asn Met Asn Tyr Ala Asn Gly Phe Pro Cys Pro Ala
                85                  90                  95

Asp Val Gln Thr Asp Phe Ile Asp His Asn Ser Gln Ser Thr Trp Asn
                100                 105                 110

Thr Pro Pro Asn Met Pro Ala Ala Trp Gly His Ala Ser Phe Ile Ser
            115                 120                 125

Ser Pro Pro Tyr Leu Thr Ser Thr Arg Ser Leu Ser Pro Met Ser Gly
    130                 135.                140

Leu Phe Gly Ser Ile Trp Ala Pro Gln Ser Asp Val Tyr Glu Asn Cys
145                 150                 155                 160

Cys Pro Ile Asn Pro Thr Thr Glu His Ser Thr His Met Glu Asn Gln
                165                 170                 175

Ala Val Val Cys Lys Glu Tyr Tyr Pro Gly Phe Asn Pro Phe Arg Ala
                180                 185                 190

Tyr Met Asn Leu Asp Ile Trp Thr Thr Thr Ala Asn Arg Asn Ala Asn
        195                 200                 205
```

```
Phe Pro Leu Ser Arg Asp Ser Ser Tyr Cys Gly Asn Val
    210                 215             220
```

```
<210> 2008
<211> 166
<212> PRT
<213> Homo sapiens
```

```
<400> 2008
Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala
  1               5               10                  15

Ala Ala Val Asn Leu Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys
              20              25              30

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn
          35              40              45

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Leu Pro Thr
      50              55              60

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser
 65              70              75              80

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser
              85              90                  95

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile
              100             105             110

Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Val Asn Ser
          115             120             125

Val Phe Ala Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg
      130             135             140

Val Ile Pro Ala Met Gly Lys Thr Ser Ser Glu Leu Phe Ser Tyr Leu
145             150             155             160

Thr Glu Glu Gly Ser Ile
              165
```

```
<210> 2009
<211> 19
<212> PRT
<213> Homo sapiens
```

<400> 2009
Ile Pro Cys Thr Arg Pro Leu Gly Phe Pro Cys Gly Ser Asn Val Pro
  1   5   10   15

Trp Trp Gly

<210> 2010
<211> 511
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (388)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2010
Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala
  1   5   10   15

Ala Ala Val Asn Leu Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys
              20   25   30

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn
              35   40   45

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Leu Pro Thr
      50   55   60

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser
 65   70   75   80

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser
              85   90   95

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile
              100   105   110

Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Val Asn Ser

1505

```
              115                    120                    125
Val Phe Ala Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg
        130                135                140

Val Ile Pro Ala Met Gly Lys Thr Ser Phe Arg Ile Ile Phe Leu Pro
145                150                155                160

Thr Glu Glu Gly Ser Ile Glu Ser Ser Leu Xaa Ile Asn Thr Ser Ser
                165                170                175

Tyr Gly Val Leu Ser Tyr His Val Ser Gly Ile Gly Thr Arg Arg Ile
            180                185                190

Ser Thr Glu Gly Ser Ala Lys Gln Leu Pro Asn Ala Tyr Phe Leu Leu
        195                200                205

Pro Lys Val Gln Ser Ile Gln Leu Ser Gln Met Gln Ala Glu Thr Thr
        210                215                220

Asn Thr Ser Leu Leu Gln Val Gln Leu Glu Cys Ser Leu His Asn Lys
225                230                235                240

Val Cys Gln Gln Leu Lys Gly Cys Tyr Leu Glu Ser Asp Asp Val Leu
            245                250                255

Arg Leu Gln Met Ser Ile Met Val Thr Met Glu Asn Phe Ser Lys Glu
            260                265                270

Phe Glu Glu Asn Thr Gln His Leu Leu Asp His Leu Ser Ile Val Tyr
        275                280                285

Val Ala Thr Asp Glu Ser Glu Thr Ser Asp Asp Ser Ala Val Asn Met
        290                295                300

Tyr Ile Leu His Ser Gly Asn Ser Leu Ile Trp Ile Gln Asp Ile Arg
305                310                315                320

His Phe Ser Gln Arg Asp Ala Leu Ser Leu Gln Phe Glu Pro Val Leu
                325                330                335

Leu Pro Thr Ser Thr Thr Asn Phe Thr Lys Ile Ala Ser Phe Thr Cys
                340                345                350

Lys Ala Ala Thr Ser Xaa Asp Ser Gly Ile Ile Glu Asp Val Lys Lys
            355                360                365

Thr Thr His Thr Pro Thr Leu Lys Ala Cys Leu Phe Ser Ser Val Ala
    370                375                380

Gln Gly Tyr Xaa Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu
385                390                395                400

                              1506
```

Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His
                405   410   415

Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr
                420   425   430

Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro
                435   440   445

Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile
        450   455   460

Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala
465   470   475   480

Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val
                485   490   495

Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu
                500   505   510

<210> 2011
<211> 317
<212> PRT
<213> Homo sapiens

<400> 2011
Met Ile Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys
  1   5   10   15

Ala Lys Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu
                20   25   30

Met Pro Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn
                35   40   45

Arg His Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu
        50   55   60

Leu Leu Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met
65   70   75   80

Ala Gln His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe
                85   90   95

Phe Asn Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser
                100   105   110

Val Leu Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr

Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn
    130   135   140

Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys
145   150   155   160

Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro
                165   170   175

Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr
            180   185   190

Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp
        195   200   205

Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg
    210   215   220

His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg
225   230   235   240

Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu
            245   250   255

Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe
            260   265   270

Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp
        275   280   285

Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu
    290   295   300

Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln
305   310   315

<210> 2012
<211> 957
<212> PRT
<213> Homo sapiens

<400> 2012
Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro
  1   5   10   15

Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu
            20   25   30

Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys Leu Val Pro Asn
        35   40   45

His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu
        50   55   60

Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala
65   70   75   80

Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu
                85   90   95

Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu
            100   105   110

Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Ala Glu
        115   120   125

Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val
    130   135   140

Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu
145   150   155   160

Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu
                165   170   175

Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu
            180   185   190

Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys
        195   200   205

Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln
    210   215   220

Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser
225   230   235   240

Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg
                245   250   255

Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val
            260   265   270

Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile
            275   280   285

Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp
    290   295   300

Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala

1509

Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His
            325   330   335

Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly
            340   345   350

Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly
            355   360   365

Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val
    370   375   380

Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser
385   390   395   400

Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys
            405   410   415

Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln
            420   425   430

Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly
            435   440   445

Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln
    450   455   460

Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His
465   470   475   480

Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala
            485   490   495

Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val
            500   505   510

Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly
            515   520   525

Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro
            530   535   540

His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg
545   550   555   560

Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys
            565   570   575

Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala
            580   585   590

Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro
        595   600   605

Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser
    610   615   620

Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys
625   630   635   640

Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro
                645   650   655

Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro
            660   665   670

Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg
        675   680   685

Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His
    690   695   700

Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu
705   710   715   720

Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His
                725   730   735

Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu
            740   745   750

Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu
        755   760   765

Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr
    770   775   780

Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr
785   790   795   800

Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile
                805   810   815

Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr
        820   825   830

Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro
        835   840   845

Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu
    850   855   860

1511

Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu
865   870   875   880

Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val
              885   890   895

Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly
              900   905   910

Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser
              915   920   925

Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val
        930   935   940

Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg
945   950   955

<210> 2013
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2013
Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
  1   5   10   15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser
              20   25   30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met
        35   40   45

Arg Val Leu Val Leu Leu Ile Trp Ser
     50   55

<210> 2014
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2014
Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
  1   5   10   15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser
              20   25   30

1512

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met
        35   40   45

Arg Val Leu Val Leu Leu Ile Trp Ser
        50   55

<210> 2015
<211> 75
<212> PRT
<213> Homo sapiens

<400> 2015
Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1   5   10   15

Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
             20   25   30

Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Gly Lys Glu Lys
        35   40   45

Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
        50   55   60

Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65   70   75

<210> 2016
<211> 42
<212> PRT
<213> Homo sapiens

<400> 2016
Met Arg Leu Ser Lys Ser Asn Gln Val Gln Leu Phe Leu Tyr Phe Leu
 1   5   10   15

Leu Gln Trp Ser Leu Gly Ser Val Asn Ala Glu Thr Ser Leu Gln Ile
             20   25   30

Leu Leu Ala Cys Ser Phe Thr Thr Asp Ser
        35   40

<210> 2017
<211> 169
<212> PRT
<213> Homo sapiens

1513

<400> 2017

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
1   5   10   15

Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
                20   25   30

Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
            35   40   45

Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
        50   55   60

Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
65   70   75   80

Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
                85   90   95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
            100   105   110

Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
            115   120   125

Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
        130   135   140

Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
145   150   155   160

Met Gln Thr Gly Ser Pro Ala Ser Thr
                165

<210> 2018
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2018
Met Val Lys His Phe Thr Leu Trp Met Val Cys Leu Ser Leu Val Phe
1   5   10   15

Arg Lys Leu Leu Ser Leu Leu Pro Lys Lys Lys Glu Gly Gln Val Asn
                20   25   30

Phe Phe Asn Gln Lys Lys Ile Thr His Phe Ile Lys Pro
            35   40   45

1514

<210> 2019
<211> 388
<212> PRT
<213> Homo sapiens

<400> 2019
Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr
 1   5   10   15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile
            20   25   30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe
            35   40   45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu
    50   55   60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys
65   70   75   80

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu
                85   90   95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
            100   105   110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro
        115   120   125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg
    130   135   140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu
145   150   155   160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys
                165   170   175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro
            180   185   190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp
        195   200   205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala
    210   215   220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro
225   230   235   240

1515

```
Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu
                245             250             255

Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile
            260             265             270

Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr
        275             280             285

Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe
        290             295             300

Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser
305             310             315             320

Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln
            325             330             335

Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu
            340             345             350

Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His
        355             360             365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu
        370             375             380

Pro Ala Pro Cys
385




<210> 2020
<211> 554
<212> PRT
<213> Homo sapiens

<400> 2020
Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly
  1           5               10              15

Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg
            20              25              30

Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu
            35              40              45

Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu
        50              55              60

Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg
```

Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala
                85   90   95

Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu
                100   105   110

Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe
                115   120   125

Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys
        130   135   140

Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr
145   150   155   160

Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala
                165   170   175

Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu
                180   185   190

Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln
        195   200   205

Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu
        210   215   220

Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val
225   230   235   240

Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val
                245   250   255

Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly
                260   265   270

Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala
                275   280   285

Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser
        290   295   300

Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg
305   310   315   320

Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala
                325   330   335

Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala
                340   345   350

```
Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys
    355                 360             365

Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu
    370             375             380

Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile
385                 390             395                 400

Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro
            405             410             415

Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala
            420             425             430

Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile
        435             440             445

Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn
    450             455             460

Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro
465             470             475             480

Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln
            485             490             495

Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg
            500             505             510

Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro
        515             520             525

Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro
    530             535             540

Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys
545             550


<210> 2021
<211> 509
<212> PRT
<213> Homo sapiens

<400> 2021
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
  1             5                 10                  15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
```

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
         35   40   45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
     50   55   60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
 65   70   75   80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
                 85   90   95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
             100   105   110

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
         115   120   125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
     130   135   140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
145   150   155   160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
             165   170   175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
         180   185   190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
         195   200   205

Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
     210   215   220

Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
225   230   235   240

Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
             245   250   255

Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
         260   265   270

Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
         275   280   285

Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
     290   295   300

1519

Ser Leu Gly Ser Glu Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
305   310   315   320

Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
              325   330   335

Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
              340   345   350

Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
              355   360   365

Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
              370   375   380

Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
385   390   395   400

Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
              405   410   415

Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
              420   425   430

Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
              435   440   445

Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
              450   455   460

Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
465   470   475   480

Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
              485   490   495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
              500   505

<210> 2022
<211> 264
<212> PRT
<213> Homo sapiens

<400> 2022
Met Cys Leu Leu Gly Ala Leu Val Leu Leu Gly Leu Gly Val Leu Leu
  1   5   10   15

Phe Ser Gly Gly Leu Ser Glu Ser Glu Thr Gly Pro Met Glu Glu Val

1520

```
              20                      25                      30

Glu Arg Gln Val Leu Pro Asp Pro Glu Val Leu Glu Ala Val Gly Asp
        35                  40                  45

Arg Gln Asp Gly Leu Arg Glu Gln Leu Gln Ala Pro Val Pro Pro Asp
    50                  55                  60

Ser Val Pro Ser Leu Gln Asn Met Gly Leu Leu Leu Asp Lys Leu Ala
65                  70                  75                      80

Lys Glu Asn Gln Asp Ile Arg Leu Leu Gln Ala Gln Leu Gln Ala Gln
                85                  90                  95

Lys Glu Glu Leu Gln Ser Leu Met His Gln Pro Lys Gly Leu Glu Glu
            100                 105                 110

Glu Asn Ala Gln Leu Arg Gly Ala Leu Gln Gln Gly Glu Ala Phe Gln
            115                 120                 125

Arg Ala Leu Glu Ser Glu Leu Gln Gln Leu Arg Ala Arg Leu Gln Gly
    130                 135                 140

Leu Glu Ala Asp Cys Val Arg Gly Pro Asp Gly Val Cys Leu Ser Gly
145                 150                 155                 160

Gly Arg Gly Pro Gln Gly Asp Lys Ala Ile Arg Glu Gln Gly Pro Arg
            165                 170                 175

Glu Gln Glu Pro Glu Leu Ser Phe Leu Lys Gln Lys Glu Gln Leu Glu
            180                 185                 190

Ala Glu Ala Gln Ala Leu Ser Leu Glu Glu Val Ala Val Gln Gln Thr
            195                 200                 205

Gly Asp Asp Asp Glu Val Asp Asp Phe Glu Asp Phe Ile Phe Ser His
    210                 215                 220

Phe Phe Gly Asp Lys Ala Leu Lys Lys Arg Ser Gly Lys Lys Asp Lys
225                 230                 235                 240

His Ser Gln Ser Pro Arg Ala Ala Gly Pro Arg Glu Gly His Ser His
                245                 250                 255

Ser His His His His His Arg Gly
            260
```

<210> 2023
<211> 123
<212> PRT
```

                                    1521
```

<213> Homo sapiens

<400> 2023
```
Met Leu Cys Leu Ser Ser Val Val Met Phe Leu Pro Gln Pro Gly Ala
1   5   10   15

Ala Ser Asp Pro Leu Phe Ile Trp Glu Ala Ser Cys His Ser Leu Gly
            20   25   30

Gln Asn Trp Ala Gln Gly Lys Gly Leu Ser Pro Glu Asp Gly Leu Glu
        35   40   45

Gly Leu Gly His Thr Arg Ala Trp Thr Phe Gly Ala Gly Glu Pro Gly
    50   55   60

Leu Arg Leu Leu Asn Val Arg Gly Leu Leu Thr Arg Gly Pro Ser Arg
65   70   75   80

Gly Ser Leu Cys Pro Leu Leu Trp Ser Asp Gln Ala Leu His Leu Ser
            85   90   95

Ala Gly Pro Leu Trp Gln Arg Ser Pro Val Leu Phe Leu Leu Phe Leu
            100   105   110

Phe Leu Thr Lys Ala Cys Ala Thr Ser Cys Pro
        115   120
```

<210> 2024
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2024
```
Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu
1   5   10   15

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val
            20   25   30

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg
        35   40   45

Leu Glu His Val Lys Gly Ile Phe Lys
    50   55
```

<210> 2025
<211> 57
<212> PRT

<213> Homo sapiens

<400> 2025
Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu
1               5               10              15

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val
            20              25              30

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg
        35              40              45

Leu Glu His Val Lys Gly Ile Phe Lys
    50              55


<210> 2026
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2026
Met Glu Ile Arg Thr Arg Val Val Trp Leu Cys Leu Cys Leu Cys Leu
1               5               10              15

Cys Leu Cys Leu Cys Leu Ser Leu Phe Ser Leu Pro Xaa Ser Leu Ser
            20              25              30

Pro Leu Pro Ser Pro Leu Ser Leu Ser Val Ser Leu Ser Leu Ser Phe
        35              40              45

His Gly Leu Pro Leu Met Pro Ser Arg Ser Trp Thr Val Leu Leu Pro
        50              55              60

Ser Gln Leu Thr Ala Thr Ser Leu Pro Asp Ser Pro Ala Ser Ala Cys
65              70              75              80

Arg Val Pro Ala Ile Ala Gly Ala Arg His His Ala
            85              90


<210> 2027
<211> 82
<212> PRT
<213> Homo sapiens


1523

<400> 2027
Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
1               5                   10                  15

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
                20                  25                  30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
            35                  40                  45

Ser Met Val Ser Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
        50                  55                  60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
65              70                  75                  80

Lys Ser


<210> 2028
<211> 46
<212> PRT
<213> Homo sapiens

<400> 2028
Met Val Thr Ala Ser Leu Leu Leu Leu Pro Ala Val Met Ala Ile Val
1               5                   10                  15

Phe Pro Ile Thr Trp Ala Val Gln Ser Gln Ser Trp Ala Ala Glu Phe
                20                  25                  30

Asn Gly Ala Cys Phe Gln Val Leu His Gly Lys Leu Tyr Ser
            35                  40                  45


<210> 2029
<211> 176
<212> PRT
<213> Homo sapiens

<400> 2029
Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro
1               5                   10                  15

Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr
                20                  25                  30

Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg

1524

```
                35                      40                      45
Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val
    50                      55                      60

Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg
65      ·               70                      75                  80

Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly
                85                      90                      95    ·

Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu
            100                     105                     110

Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr
            115                     120                     125

Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro
    130                     135                     140                ·

Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg
145                     150                     155                 160

Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser
            165                     170                     175
```

<210> 2030
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2030
```
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1               5                      10                      15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
            20                      25                      30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
            35                      40                      45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
```

1525

```
Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65                  70              75                      80

Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
             85              90                  95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
            100             105             110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
        115             120             125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
    130             135             140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145             150             155                     160

Ser Arg Asn Gly Leu Val Gly Cys
                165
```

<210> 2031
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2031
```
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1               5               10                  15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
            20              25              30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
        35              40              45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
    50              55              60
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Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65                 70              75                  80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
                 85              90                  95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
             100             105             110

Leu Pro Ala Pro Ser Xaa Leu Leu Xaa His Ala Ser Ala Pro Val Arg
         115             120             125

Thr Val Cys Ala Leu Thr Trp
    130             135


<210> 2032
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2032
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1               5               10              15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
             20              25              30

Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val
             35              40              45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
     50              55              60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65                 70              75                  80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
                 85              90                  95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
             100             105             110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
         115             120             125
```

1527

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
    130   135   140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145   150   155   160

Ser Arg Asn Gly Leu Val Gly Cys
                165

<210> 2033
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2033
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
  1   5   10   15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
                20   25   30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Arg Met Tyr
            35   40   45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
    50   55   60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr
 65   70   75   80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met
                85   90   95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala
            100   105   110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu
        115   120   125

Gln Val Val Lys Ala Lys
    130

<210> 2034
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2034
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1   5   10   15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
             20   25   30

Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val
         35   40   45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
     50   55   60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65   70   75   80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
             85   90   95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
             100   105   110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
         115   120   125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
     130   135   140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145   150   155   160

Ser Arg Asn Gly Leu Val Gly Cys
             165

<210> 2035
<211> 134
<212> PRT
<213> Homo sapiens

<220>

1529

<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2035
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1   5   10   15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
            20   25   30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Arg Met Tyr
        35   40   45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
    50   55   60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr
 65   70   75   80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met
            85   90   95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala
            100   105   110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu
    115   120   125

Gln Val Val Lys Ala Lys
    130

<210> 2036
<211> 468
<212> PRT
<213> Homo sapiens

<400> 2036
Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp
 1   5   10   15

Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala
            20   25   30

Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys
        35   40   45

Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg
    50   55   60

1530

Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn
 65   70   75   80

Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg
            85   90   95

Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly
        100   105   110

Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile
        115   120   125

Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu
    130   135   140

Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp
145   150   155   160

Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala
            165   170   175

Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys
        180   185   190

Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys
        195   200   205

Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly
    210   215   220

Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu
225   230   235   240

Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala
            245   250   255

Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp
            260   265   270

Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe
    275   280   285

Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu
    290   295   300

Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro
305   310   315   320

Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln
            325   330   335

Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys

1531

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                340                    345                        350

Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys
        355                 360                 365

Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn
    370                 375                 380

Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp
385                 390                 395                     400

Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe
                405                 410                 415

Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu
            420                 425                 430

Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly
        435                 440                 445

Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu
    450                 455                 460

Gln Asn Ile His
465




<210> 2037
<211> 314
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (227)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2037
Met Leu Leu Ala Gln Gly Leu Ile Leu His Phe Leu Gly Arg Ala Trp
  1               5                   10                  15

Thr Trp Pro Asp Ala Leu Asn Ile Glu Asn Ser Asp Ser Glu Ser Trp
            20                  25                  30

Thr Ser His Thr Val Lys Lys Phe Thr Ala Ser Phe Glu Ala Ser Leu
            35                  40                  45

Ser Gly Glu Arg Glu Phe Lys Thr Pro Thr Ile Ser Leu Lys Glu Thr
    50                  55                  60

Ile Gly Lys Tyr Ser Asp Asp His Glu Met Arg Asn Glu Val Tyr His
```

Arg Lys Ile Ile Ser Trp Phe Gly Asp Ser Pro Leu Ala Leu Phe Gly
                    85   90   95

Leu His Gln Leu Ile Glu Tyr Gly Lys Lys Ser Gly Lys Lys Ala Gly
              100   105   110

Asp Trp Tyr Gly Pro Ala Val Val Ala His Ile Leu Arg Lys Ala Val
          115   120   125

Glu Glu Ala Arg His Pro Asp Leu Gln Gly Ile Thr Ile Tyr Val Ala
      130   135   140

Gln Asp Cys Thr Val Pro Val Arg Leu Gly Gly Glu Arg Thr Asn Thr
145   150   155   160

Asp Tyr Leu Glu Phe Val Lys Gly Ile Leu Ser Leu Glu Tyr Cys Val
              165   170   175

Gly Ile Ile Gly Gly Lys Pro Lys Gln Ser Tyr Tyr Phe Ala Gly Phe
          180   185   190

Gln Asp Asp Ser Leu Ile Tyr Met Asp Pro His Tyr Cys Gln Ser Phe
      195   200   205

Val Asp Val Ser Ile Lys Asp Phe Pro Leu Glu Thr Phe His Cys Pro
      210   215   220

Ser Pro Xaa Lys Met Ser Phe Arg Lys Met Asp Pro Ser Cys Thr Ile
225   230   235   240

Gly Phe Tyr Cys Arg Asn Val Gln Asp Phe Lys Arg Ala Ser Glu Glu
              245   250   255

Ile Thr Lys Met Leu Lys Phe Ser Ser Lys Glu Lys Tyr Pro Leu Phe
              260   265   270

Thr Phe Val Asn Gly His Ser Arg Asp Tyr Asp Phe Thr Ser Thr Thr
          275   280   285

Thr Asn Glu Glu Asp Leu Phe Ser Glu Asp Glu Lys Lys Gln Leu Lys
      290   295   300

Arg Phe Ser Thr Glu Glu Phe Val Leu Leu
305   310

<210> 2038
<211> 56
<212> PRT

<213> Homo sapiens

<400> 2038
Met Arg Trp Leu Phe Val Leu Met Leu Ser Leu Pro Leu Pro Pro Thr
1   5   10   15

Pro Arg Gln Gly Pro Ala Cys Asp Val Pro Leu Pro Val Ser His Val
            20   25   30

Phe Ser Leu Phe Asn Ser His Leu Gly Ala Arg Thr Cys Gly Val Trp
        35   40   45

Phe Ser Leu Pro Val Ser Val Cys
    50   55

<210> 2039
<211> 414
<212> PRT
<213> Homo sapiens

<400> 2039
Met Lys Ala Gln Thr Ala Leu Ser Phe Phe Leu Ile Leu Ile Thr Ser
1   5   10   15

Leu Ser Gly Ser Gln Gly Ile Phe Pro Leu Ala Phe Phe Ile Tyr Val
            20   25   30

Pro Met Asn Glu Gln Ile Val Ile Gly Arg Leu Asp Glu Asp Ile Ile
        35   40   45

Leu Pro Ser Ser Phe Glu Arg Gly Ser Glu Val Val Ile His Trp Lys
    50   55   60

Tyr Gln Asp Ser Tyr Lys Val His Ser Tyr Tyr Lys Gly Ser Asp His
65   70   75   80

Leu Glu Ser Gln Asp Pro Arg Tyr Ala Asn Arg Thr Ser Leu Phe Tyr
            85   90   95

Asn Glu Ile Gln Asn Gly Asn Ala Ser Leu Phe Phe Arg Arg Val Ser
            100   105   110

Leu Leu Asp Glu Gly Ile Tyr Thr Cys Tyr Val Gly Thr Ala Ile Gln
        115   120   125

Val Ile Thr Asn Lys Val Val Leu Lys Val Gly Val Phe Leu Thr Pro
    130   135   140

Val Met Lys Tyr Glu Lys Arg Asn Thr Asn Ser Phe Leu Ile Cys Ser
145   150   155   160

1534

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Val Leu Ser Val Tyr Pro Arg Pro Ile Ile Thr Trp Lys Met Asp Asn
            165             170             175

Thr Pro Ile Ser Glu Asn Asn Met Glu Glu Thr Gly Ser Leu Asp Ser
            180             185             190

Phe Ser Ile Asn Ser Pro Leu Asn Ile Thr Gly Ser Asn Ser Ser Tyr
            195             200             205

Glu Cys Thr Ile Glu Asn Ser Leu Leu Lys Gln Thr Trp Thr Gly Arg
    210             215             220

Trp Thr Met Lys Asp Gly Leu His Lys Met Gln Ser Glu His Val Ser
225             230             235             240

Leu Ser Cys Gln Pro Val Asn Asp Tyr Phe Ser Pro Asn Gln Asp Phe
            245             250             255

Lys Val Thr Trp Ser Arg Met Lys Ser Gly Thr Phe Ser Val Leu Ala
            260             265             270

Tyr Tyr Leu Ser Ser Ser Gln Asn Thr Ile Ile Asn Glu Ser Arg Phe
            275             280             285

Ser Trp Asn Lys Glu Leu Ile Asn Gln Ser Asp Phe Ser Met Asn Leu
    290             295             300

Met Asp Leu Asn Leu Ser Asp Ser Gly Glu Tyr Leu Cys Asn Ile Ser
305             310             315             320

Ser Asp Glu Tyr Thr Leu Leu Thr Ile His Thr Val His Val Glu Pro
            325             330             335

Ser Gln Glu Thr Ala Ser His Asn Lys Gly Leu Trp Ile Leu Val Pro
            340             345             350

Ser Ala Ile Leu Ala Ala Phe Leu Leu Ile Trp Arg Val Lys Cys Cys
            355             360             365

Arg Ala Gln Leu Glu Ala Arg Arg Ser Arg His Pro Ala Asp Gly Ala
    370             375             380

Gln Gln Glu Arg Cys Cys Val Pro Pro Gly Glu Arg Cys Pro Ser Ala
385             390             395             400

Pro Asp Asn Gly Glu Glu Asn Val Pro Leu Ser Gly Lys Val
            405             410
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<210> 2040

1535

<211> 200
<212> PRT
<213> Homo sapiens

<400> 2040
Met Ala Ser Ser Leu Thr Cys Thr Gly Val Ile Trp Ala Leu Leu Ser
1   5   10   15

Phe Leu Cys Ala Ala Thr Ser Cys Val Gly Phe Phe Met Pro Tyr Trp
                20   25   30

Leu Trp Gly Ser Gln Leu Gly Lys Pro Val Ser Phe Gly Thr Phe Arg
            35   40   45

Arg Cys Ser Tyr Pro Val His Asp Glu Ser Arg Gln Met Met Val Met
        50   55   60

Val Glu Glu Cys Gly Arg Tyr Ala Ser Phe Gln Gly Ile Pro Ser Ala
65   70   75   80

Glu Trp Arg Ile Cys Thr Ile Val Thr Gly Leu Gly Cys Gly Leu Leu
                85   90   95

Leu Leu Val Ala Leu Thr Ala Leu Met Gly Cys Cys Val Ser Asp Leu
            100   105   110

Ile Ser Arg Thr Val Gly Arg Val Ala Gly Gly Ile Gln Phe Leu Gly
        115   120   125

Gly Leu Leu Ile Gly Ala Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asp
        130   135   140

Ser Glu Glu Val Arg Gln Thr Cys Gly Tyr Thr Ser Gly Gln Phe Asp
145   150   155   160

Leu Gly Lys Cys Glu Ile Gly Trp Ala Tyr Tyr Cys Thr Gly Ala Gly
                165   170   175

Ala Thr Ala Ala Met Leu Leu Cys Thr Trp Leu Ala Cys Phe Ser Gly
            180   185   190

Lys Lys Gln Lys His Tyr Pro Tyr
        195   200

<210> 2041
<211> 249
<212> PRT
<213> Homo sapiens

<400> 2041

1536

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr
 1   5   10   15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
              20   25   30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
             35   40   45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe
        50   55   60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
 65   70   75   80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val
                85   90   95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr
             100   105   110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe
        115   120   125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys
    130   135   140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp
145   150   155   160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro
            165   170   175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val
            180   185   190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe
            195   200   205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr
    210   215   220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu
225   230   235   240

Lys Ala Thr Arg Ala Pro His Thr Asp
                245

<210> 2042
<211> 249

1537

<212> PRT
<213> Homo sapiens

<400> 2042
Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr
 1   5   10   15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
            20   25   30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
         35   40   45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe
     50   55   60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
 65   70   75   80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val
             85   90   95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr
            100   105   110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe
        115   120   125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys
    130   135   140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp
145   150   155   160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro
                165   170   175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val
            180   185   190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe
        195   200   205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr
    210   215   220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu
225   230   235   240

Lys Ala Thr Arg Ala Pro His Thr Asp
                245

1538

<210> 2043
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2043
Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly
 1   5   10   15

Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser
                20   25   30

Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly
            35   40   45

Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu
        50   55   60

<210> 2044
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2044
Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly
 1   5   10   15

Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser
                20   25   30

Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly
            35   40   45

Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu
        50   55   60

<210> 2045
<211> 310
<212> PRT
<213> Homo sapiens

<400> 2045
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1   5   10   15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val

1539

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
        35   40   45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
    50   55   60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65   70   75   80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
            85   90   95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
            100   105   110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
        115   120   125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
    130   135   140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145   150   155   160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
            165   170   175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
            180   185   190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
        195   200   205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
    210   215   220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225   230   235   240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
            245   250   255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
            260   265   270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
        275   280   285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
    290   295   300

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Lys Ser Ser Phe Val Ile
305                 310




<210> 2046
<211> 310
<212> PRT
<213> Homo sapiens

<400> 2046
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1               5                  10                  15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
                20                  25                  30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
            35                  40                  45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
        50                  55                  60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65                  70                  75                  80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
                85                  90                  95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
            100                 105                 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
        115                 120                 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
        130                 135                 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145                 150                 155                 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
                165                 170                 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
                180                 185                 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
            195                 200                 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp


                                1541
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Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225   230   235   240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
                245   250   255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
            260   265   270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
        275   280   285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
    290   295   300

Lys Ser Ser Phe Val Ile
305   310

<210> 2047
<211> 310
<212> PRT
<213> Homo sapiens

<400> 2047
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1   5   10   15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
            20   25   30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
        35   40   45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
    50   55   60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65   70   75   80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
            85   90   95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
            100   105   110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
        115   120   125

1542

```
Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
    130               135               140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145               150               155               160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
                165               170               175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
              180               185               190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
              195               200               205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
    210               215               220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225               230               235               240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
              245               250               255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
              260               265               270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
              275               280               285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
    290               295               300

Lys Ser Ser Phe Val Ile
305               310


<210> 2048
<211> 148
<212> PRT
<213> Homo sapiens

<400> 2048
Met His Met Leu Asn Gly Ala Leu Leu Ala Leu Leu Phe Pro Val Val
  1               5               10               15

Asn Thr Arg Leu Leu Pro Phe Glu Leu Glu Ile Tyr Tyr Ile Gln His
              20               25               30

Val Met Leu Tyr Val Val Pro Ile Tyr Leu Leu Trp Lys Gly Gly Ala
          35               40               45
```

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Tyr Thr Pro Glu Pro Leu Ser Ser Phe Arg Trp Ala Leu Leu Ser Thr
    50                  55                  60

Gly Leu Met Phe Phe Tyr His Phe Ser Val Leu Gln Ile Leu Gly Leu
65                  70                  75                  80

Val Thr Glu Val Asn Leu Asn Asn Met Leu Cys Pro Ala Ile Ser Asp
                85                  90                  95

Pro Phe Tyr Gly Pro Trp Tyr Arg Ile Trp Ala Ser Gly His Gln Thr
            100                 105                 110

Leu Met Thr Met Thr His Gly Lys Leu Val Ile Leu Phe Ser Tyr Met
            115                 120                 125

Ala Gly Pro Leu Cys Lys Tyr Leu Leu Asp Leu Leu Arg Leu Pro Ala
    130                 135 ·               140

Lys Lys Ile Asp
145


<210> 2049
<211> 413
<212> PRT
<213> Homo sapiens

<400> 2049
Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val Lys
  1               5                   10                  15

Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr Asp Gly
                20                  25                  30

Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys
            35                  40                  45

Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His
    50                  55                  60

Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn
65                  70                  75                  80

Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro Ala Glu Gly Thr Ser Gly
                85                  90                  95

Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val
            100                 105                 110

Leu Pro Gly Gly Gly Phe Val Ala Ser Ala Ala Ala Val Ala Gly Pro
```

1544

```
                115                      120                      125

    Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala
        130                 135                 140

    Asp Pro Gln Arg Ile Pro Ser Asn Pro Ser His Arg Ile Gln Cys Ala
    145                 150                 155                 160

    Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu
                    165                 170                 175

    Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn
                    180                 185                 190

    Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg
                    195                 200                 205

    Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Arg Thr Ser Ser Tyr Leu
        210                 215                 220

    Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys Phe Ser Cys Met Cys
    225                 230                 235                 240

    Pro Gln Gly Tyr Gln Val Val Arg Ser Arg Thr Cys Gln Asp Ile Asn
                    245                 250                 255

    Glu Cys Glu Thr Thr Asn Glu Cys Arg Glu Asp Glu Met Cys Trp Asn
                    260                 265                 270

    Tyr His Gly Gly Phe Arg Cys Tyr Pro Arg Asn Pro Cys Gln Asp Pro
                    275                 280                 285

    Tyr Ile Leu Thr Pro Glu Asn Arg Cys Val Cys Pro Val Ser Asn Ala
        290                 295                 300

    Met Cys Arg Glu Leu Pro Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile
    305                 310                 315                 320

    Arg Ser Asp Arg Ser Val Pro Ser Asp Ile Phe Gln Ile Gln Ala Thr
                    325                 330                 335

    Thr Ile Tyr Ala Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser Gly Asn
                    340                 345                 350

    Glu Asn Gly Glu Phe Tyr Leu Arg Gln Thr Ser Pro Val Ser Ala Met
                    355                 360                 365

    Leu Val Leu Val Lys Ser Leu Ser Gly Pro Arg Glu His Ile Val Asp
        370                 375                 380

    Leu Glu Met Leu Thr Val Ser Ser Ile Gly Thr Phe Arg Thr Ser Ser
    385                 390                 395                 400

                                   1545
```

Val Leu Arg Leu Thr Ile Ile Val Gly Pro Phe Ser Phe
                405   410

<210> 2050
<211> 683
<212> PRT
<213> Homo sapiens

<400> 2050
Met Leu Phe Ile Phe Asn Phe Leu Phe Ser Pro Leu Pro Thr Pro Ala
  1   5   10   15

Leu Ile Cys Ile Leu Thr Phe Gly Ala Ala Ile Phe Leu Trp Leu Ile
             20   25   30

Thr Arg Pro Gln Pro Val Leu Pro Leu Leu Asp Leu Asn Asn Gln Ser
         35   40   45

Val Gly Ile Glu Gly Gly Ala Arg Lys Gly Val Ser Gln Lys Asn Asn
     50   55   60

Asp Leu Thr Ser Cys Cys Phe Ser Asp Ala Lys Thr Met Tyr Glu Val
 65   70   75   80

Phe Gln Arg Gly Leu Ala Val Ser Asp Asn Gly Pro Cys Leu Gly Tyr
                 85   90   95

Arg Lys Pro Asn Gln Pro Tyr Arg Trp Leu Ser Tyr Lys Gln Val Ser
            100   105   110

Asp Arg Ala Glu Tyr Leu Gly Ser Cys Leu Leu His Lys Gly Tyr Lys
            115   120   125

Ser Ser Pro Asp Gln Phe Val Gly Ile Phe Ala Gln Asn Arg Pro Glu
    130   135   140

Trp Ile Ile Ser Glu Leu Ala Cys Tyr Thr Tyr Ser Met Val Ala Val
145   150   155   160

Pro Leu Tyr Asp Thr Leu Gly Pro Glu Ala Ile Val His Ile Val Asn
                165   170   175

Lys Ala Asp Ile Ala Met Val Ile Cys Asp Thr Pro Gln Lys Ala Leu
            180   185   190

Val Leu Ile Gly Asn Val Glu Lys Gly Phe Thr Pro Ser Leu Lys Val
            195   200   205

Ile Ile Leu Met Asp Pro Phe Asp Asp Asp Leu Lys Gln Arg Gly Glu

1546

Lys Ser Gly Ile Glu Ile Leu Ser Leu Tyr Asp Ala Glu Asn Leu Gly
225   230   235   240

Lys Glu His Phe Arg Lys Pro Val Pro Pro Ser Pro Glu Asp Leu Ser
                245   250   255

Val Ile Cys Phe Thr Ser Gly Thr Thr Gly Asp Pro Lys Gly Ala Met
            260   265   270

Ile Thr His Gln Asn Ile Val Ser Asn Ala Ala Ala Phe Leu Lys Cys
        275   280   285

Val Glu His Ala Tyr Glu Pro Thr Pro Asp Asp Val Ala Ile Ser Tyr
        290   295   300

Leu Pro Leu Ala His Met Phe Glu Arg Ile Val Gln Ala Val Val Tyr
305   310   315   320

Ser Cys Gly Ala Arg Val Gly Phe Phe Gln Gly Asp Ile Arg Leu Leu
                325   330   335

Ala Asp Asp Met Lys Thr Leu Lys Pro Thr Leu Phe Pro Ala Val Pro
            340   345   350

Arg Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn Glu Ala Lys Thr
            355   360   365

Pro Leu Lys Lys Phe Leu Leu Lys Leu Ala Val Ser Ser Lys Phe Lys
    370   375   380

Glu Leu Gln Lys Gly Ile Ile Arg His Asp Ser Phe Trp Asp Lys Leu
385   390   395   400

Ile Phe Ala Lys Ile Gln Asp Ser Leu Gly Gly Arg Val Arg Val Ile
            405   410   415

Val Thr Gly Ala Ala Pro Met Ser Thr Ser Val Met Thr Phe Phe Arg
            420   425   430

Ala Ala Met Gly Cys Gln Val Tyr Glu Ala Tyr Gly Gln Thr Glu Cys
            435   440   445

Thr Gly Gly Cys Thr Phe Thr Leu Pro Gly Asp Trp Thr Ser Gly His
    450   455   460

Val Gly Val Pro Leu Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala
465   470   475   480

Asp Met Asn Tyr Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys
            485   490   495

Gly Thr Asn Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln
            500   505   510

Glu Ala Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg
            515   520   525

Trp Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile
    530   535   540

Phe Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn
545   550   555   560

Ile Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu
                565   570   575

Ser Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val
                580   585   590

Leu Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu
                595   600   605

Leu Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln
    610   615   620

Lys Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala
625   630   635   640

Ile Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Leu Thr
                645   650   655

Pro Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr
                660   665   670

Gln Ile Asp Ser Leu Tyr Glu His Ile Gln Asp
        675   680

<210> 2051
<211> 298
<212> PRT
<213> Homo sapiens

<400> 2051
Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg
  1   5   10   15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp
            20   25   30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn

1548

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala
    50   55   60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn
65   70   75   80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu
            85   90   95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala
            100   105   110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr
        115   120   125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser
    130   135   140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val
145   150   155   160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu
            165   170   175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln
        180   185   190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys
        195   200   205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Ala Met Phe Ser Val Ser
    210   215   220

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys
225   230   235   240

Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp
            245   250   255

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Phe
            260   265   270

Gly Asp Glu Lys Lys Tyr Trp Leu Leu Pro Ile Phe Ser Ser Leu Gly
        275   280   285

Asp Gly Cys Ser Phe Pro Thr Leu Pro Cys
290   295

<210> 2052
<211> 286
<212> PRT
<213> Homo sapiens

<400> 2052
Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg
 1   5   10   15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp
                20   25   30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn
            35   40   45

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala
        50   55   60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn
65   70   75   80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu
                85   90   95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala
            100   105   110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr
        115   120   125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser
    130   135   140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val
145   150   155   160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu
                165   170   175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln
            180   185   190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys
        195   200   205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Ala Met Phe Ser Val Ser
    210   215   220

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys
225   230   235   240

Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp

1550

245   250   255

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Leu
            260   265   270

Val Met Arg Arg Ser Thr Gly Cys Tyr Pro Phe Phe Gln Val
        275   280   285

<210> 2053
<211> 47
<212> PRT
<213> Homo sapiens

<400> 2053
Met Ser His Gly Ser Gln Pro Phe Leu Leu Leu Leu Ser Leu His Ile
 1   5   10   15

Leu Ile Leu Ala Gly Ser Phe Leu Leu Phe Ser Pro Tyr Thr Ala Lys
            20   25   30

Pro Ser Phe Ser Ser Ser Phe Ile Val Phe Pro Arg Ala Glu Met
            35   40   45

<210> 2054
<211> 914
<212> PRT
<213> Homo sapiens

<400> 2054
Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu
 1   5   10   15

Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
            20   25   30

Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
            35   40   45

Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu
    50   55   60

Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu
 65   70   75   80

Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu
                85   90   95

Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro

                              1551

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                    100                         105                        110

Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys
        115                 120                 125

Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu
    130                 135                 140

Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu Trp Ala His
145                 150                 155                     160

Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
                165                 170                 175

Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr
            180                 185                 190

Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys
        195                 200                 205

Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu
    210                 215                 220

Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
225                 230                 235                     240

Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn
                245                 250                 255

Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr
                260                 265                 270

Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met
        275                 280                 285

Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln
    290                 295                 300

Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly
305                 310                 315                     320

Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln
                325                 330                 335

Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala
            340                 345                 350

Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg
        355                 360                 365

Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser
    370                 375                 380

                                  1552
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Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr
385                 390             395                 400

Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn
                405             410             415

Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile
            420             425             430

His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu
        435             440             445

Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln
    450             455             460

Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly
465             470             475             480

Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu
            485             490             495

Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val
            500             505             510

Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln
        515             520             525

Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val
    530             535             540

Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys
545             550             555             560

Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr
            565             570             575

Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr
            580             585             590

Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu
            595             600             605

Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala
    610             615             620

Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu
625             630             635             640

Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly
            645             650             655
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Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser
        660             665             670

Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val
        675             680             685

Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn
    690             695             700

Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp
705             710             715             720

Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser
            725             730             735

Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro
            740             745             750

Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu
        755             760             765

Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr
    770             775             780

Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg
785             790             795             800

Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro
            805             810             815

Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile
            820             825             830

Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp
        835             840             845

Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu
    850             855             860

Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr
865             870             875             880

Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile
            885             890             895

His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser
        900             905             910

Ile Ala
```

<210> 2055
<211> 83
<212> PRT
<213> Homo sapiens

<400> 2055

```
Met Ala Ser Cys Gly Leu Thr Gly Ala Ser Leu Pro Pro Cys Cys Cys
1               5                   10                  15

Ser Ser Phe Leu Ala Ala Leu Lys Ser Met Phe Trp Gly Leu Gly Ser
            20                  25                  30

Leu Leu Trp Ser Leu Val Gly Ile Leu Ser Pro Ile Ser Ser Cys Phe
            35                  40                  45

Cys Val Tyr Thr Cys Leu Thr Pro Gly Ser Ser Ser Leu Phe Pro Arg
        50                  55                  60

Ala Val Thr Gln Lys Leu Glu Gln Ser Val Pro Thr Lys Ala Leu Trp
65                  70                  75                  80

Gly Trp Met
```

<210> 2056
<211> 68
<212> PRT
<213> Homo sapiens

<400> 2056

```
Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu
1               5                   10                  15

Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser
            20                  25                  30

Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr
            35                  40                  45

Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro
        50                  55                  60

Leu Ser His Leu
65
```

<210> 2057
<211> 73

1555

<212> PRT
<213> Homo sapiens

<400> 2057
Met Glu Leu Leu Lys Cys Ser Trp Gln Leu Phe Phe Ser Phe Leu Thr
 1   5   10   15

His Cys Ser Ala Ser Thr Ile Val Trp Leu Phe Val Gln His Arg Leu
                20   25   30

Ser Gln Ser His Asn Lys Pro Phe Phe Gly Ile Leu Gln Arg Cys His
                35   40   45

Ser Trp His Leu Asn Arg Glu Ser Phe Val Pro Asn Gln Ser Phe Ser
        50   55   60

Ile Tyr Glu Ser Cys Ser Ile Arg Lys
 65   70

<210> 2058
<211> 85
<212> PRT
<213> Homo sapiens

<400> 2058
Met Gln Val Phe Phe Leu Ser Glu Ile Gly Met Leu Trp Val Val Val
 1   5   10   15

Lys Met Ala His Ser Ala Met Leu Val Ser His Thr Gln Asp Pro Thr
                20   25   30

Pro Ser Arg Trp Pro Cys Ser Leu Ala Gln Ser Ile Leu Leu Thr Cys
                35   40   45

Ser Pro Gln His Arg Phe Ser Leu Glu Arg Lys Ile Gln Leu Pro Pro
        50   55   60

Arg Arg Trp Trp Ala Glu Gly Arg Glu Gly Cys Trp Val Arg Glu Arg
 65   70   75   80

Val Gly Glu Arg Thr
                85

<210> 2059
<211> 51
<212> PRT
<213> Homo sapiens

1556

<400> 2059
Met Leu Thr Leu Thr His Phe Val Ser Tyr Asp Tyr Phe Ile Val Lys
1   5   10   15

Arg Leu Val Gly Trp Leu Val Gly Trp Leu Val Cys Phe Val Leu Val
                20   25   30

Ser Pro Phe Ile His Ser Leu Ser Thr Asn Tyr Asn Phe Leu Cys Phe
            35   40   45

Met Cys Gly
        50

<210> 2060
<211> 354
<212> PRT
<213> Homo sapiens

<400> 2060
Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser
1   5   10   15

Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser
                20   25   30

Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu
            35   40   45

Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe
        50   55   60

Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr
65   70   75   80

Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln
            85   90   95

Phe Leu Asp Asn Leu His Ile Asn Leu Leu Lys Phe Ala Phe Ser Ile
            100   105   110

Arg Ala Tyr Ser Pro Ala Ile Gln Met Phe Gln Gln Ile Ala Ala Asp
        115   120   125

Glu Pro Pro Pro Asp Gly Cys Asn Ala Phe Val Val Ile His Lys Lys
        130   135   140

His Thr Cys Lys Ile Asn Glu Ile Lys Lys Leu Leu Lys Lys Ala Ala
145   150   155   160

Ser Arg Thr Arg Pro Tyr Leu Phe Lys Gly Asp His Lys Phe Pro Thr

1557

Asn Lys Glu Asn Leu Pro Val Val Ile Leu Tyr Ala Glu Met Gly Thr
          180   185   190

Arg Thr Phe Ser Ala Phe His Lys Val Leu Ser Glu Lys Ala Gln Asn
        195   200   205

Glu Glu Ile Leu Tyr Val Leu Arg His Tyr Ile Gln Lys Pro Ser Ser
    210   215   220

Arg Lys Met Tyr Leu Ser Gly Tyr Gly Val Glu Leu Ala Ile Lys Ser
225   230   235   240

Thr Glu Tyr Lys Ala Leu Asp Asp Thr Gln Val Lys Thr Val Thr Asn
            245   250   255

Thr Thr Val Glu Asp Glu Thr Glu Thr Asn Glu Val Gln Gly Phe Leu
        260   265   270

Phe Gly Lys Leu Lys Glu Ile Tyr Ser Asp Leu Arg Asp Asn Leu Thr
        275   280   285

Ala Phe Gln Lys Tyr Leu Ile Glu Ser Asn Lys Gln Met Met Pro Leu
    290   295   300

Lys Val Trp Glu Leu Gln Asp Leu Ser Phe Gln Ala Ala Ser Gln Ile
305   310   315   320

Met Ser Ala Pro Val Tyr Asp Ala Ile Lys Leu Met Lys Asp Ile Ser
            325   330   335

Gln Asn Phe Pro Ile Lys Ala Arg Val Gln Met Ile Gly Asn Val Leu
        340   345   350

Ile Gly

<210> 2061
<211> 157
<212> PRT
<213> Homo sapiens

<400> 2061
Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu
  1   5   10   15

Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp
            20   25   30

Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr
        35   40   45

Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser
        50   55   60   .

Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val
 65   .   70   75   80

Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Leu Ser Val Val Phe
                85   90   95

Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser
            100   105   110

Gln Gly Ser Gln Ser Ala Leu Gln Thr Cys Glu Tyr Tyr Pro Lys Thr
        115   120   125

Cys Leu Gln Val Gly Val Gly Leu Glu Lys Glu Gln Arg Cys Phe Lys
    130   135   140

Ile Lys Gln Gln Gly Leu His Ile Ile Val Ser Asp Lys
145   150   155

<400> 2062
Met Val Leu Gly Phe Val Leu Leu Leu Phe Asn Met Gly Gly Thr Phe
 1   5   10   15

Ser Asp Gly Arg Lys Glu Arg Arg Arg Thr Thr Phe Leu Arg Cys Cys
            20   25   30

Asp Phe Ile Met Lys Pro Ser Pro Ala Leu Ile Leu Val Thr Ser Val
        35   40   45

Gly Pro Val Leu Leu Gln Asn Ala Ser Trp Val Ser Val Cys Arg Thr
        50   55   60

Leu Leu Ser
 65

<213> Homo sapiens

<400> 2063
Met Tyr Phe Phe Phe Phe Leu Thr Phe Leu Ala Leu Trp Val Met Gly
 1   5   10   15

Thr Thr Ala Met Ala Ser Pro Phe Phe Met Gly Tyr Gln Leu Gln Tyr
                20   25   30

Gly Pro Gln Cys Cys Ser Gly His Phe Asn Asp
            35   40

<210> 2064
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2064
Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp
 1   5   10   15

Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln
                20   25   30

Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
            35   40   45

Trp Thr Glu Leu His His Cys Leu Arg
    50   55

<210> 2065
<211> 51
<212> PRT
<213> Homo sapiens

<400> 2065
Met Ile Ile Cys Leu Ile Met Phe Tyr Phe Ile Ala Leu Ala Gly Ala
 1   5   10   15

His Lys Arg Val Val Ile Gln Leu Arg Glu Gln Leu Ser Leu Glu Ser
                20   25   30

Arg Asp Lys Cys Tyr Leu Ile Gln Lys Leu Thr Glu Ala Gln Arg Asp
            35   40   45

Met Arg Asn
    50

1560

<210> 2066
<211> 366
<212> PRT
<213> Homo sapiens

<400> 2066
Met Ala Cys Leu Lys Thr Gln Arg Ala Pro Lys Ala Phe Leu Leu Leu
 1   5   10   15

Pro Leu Leu Leu Tyr Phe Ala Gly Leu Ser Lys Leu Thr Gln Leu Gln
                20   25   30

Val Cys Ser Gly Thr Asp Glu Asp Pro Asp Asp Lys Asn Ala Pro Phe
            35   40   45

Arg Gln Arg Pro Phe Cys Lys Tyr Lys Gly His Thr Ala Asp Leu Leu
        50   55   60

Asp Leu Ser Trp Ser Lys Asn Tyr Phe Leu Leu Ser Ser Ser Met Asp
65   70   75   80

Lys Thr Val Arg Leu Trp His Ile Ser Arg Arg Glu Cys Leu Cys Cys
                85   90   95

Phe Gln His Ile Asp Phe Val Thr Ala Ile Ala Phe His Pro Arg Asp
                100   105   110

Asp Arg Tyr Phe Leu Ser Gly Ser Leu Asp Gly Lys Leu Arg Leu Trp
            115   120   125

Asn Ile Pro Asp Lys Lys Val Ala Leu Trp Asn Glu Val Asp Gly Gln
        130   135   140

Thr Lys Leu Ile Thr Ala Ala Asn Phe Cys Gln Asn Gly Lys Tyr Ala
145   150   155   160

Val Ile Gly Thr Tyr Asp Gly Arg Cys Ile Phe Tyr Asp Thr Glu His
                165   170   175

Leu Lys Tyr His Thr Gln Ile His Val Arg Ser Thr Arg Gly Arg Asn
                180   185   190

Lys Val Gly Arg Lys Ile Thr Gly Ile Glu Pro Leu Pro Gly Glu Asn
            195   200   205

Lys Ile Leu Val Thr Ser Asn Asp Ser Arg Ile Arg Leu Tyr Asp Leu
        210   215   220

Arg Asp Leu Ser Leu Ser Met Lys Tyr Lys Gly Tyr Val Asn Ser Ser
225   230   235   240

1561

```
Ser Gln Ile Lys Ala Ser Phe Ser His Asp Phe Thr Tyr Leu Val Ser
            245             250             255

Gly Ser Glu Asp Lys Tyr Val Tyr Ile Trp Ser Thr Tyr His Asp Leu
            260             265             270

Ser Lys Phe Thr Ser Val Arg Arg Asp Arg Asn Asp Phe Trp Glu Gly
            275             280             285

Ile Lys Ala His Asn Ala Val Val Thr Ser Ala Ile Phe Ala Pro Asn
            290             295             300

Pro Ser Leu Met Leu Ser Leu Asp Val Gln Ser Glu Lys Ser Glu Gly
305                     310             315                 320

Asn Glu Lys Ser Glu Asp Ala Glu Val Leu Asp Ala Thr Pro Ser Gly
            325                 330             335

Ile Met Lys Thr Asp Asn Thr Glu Val Leu Leu Ser Ala Asp Phe Thr
            340             345             350

Gly Ala Ile Lys Val Phe Val Asn Lys Arg Lys Asn Val Ser
            355             360             365
```

<210> 2067
<211> 187
<212> PRT
<213> Homo sapiens

<400> 2067
```
Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1               5               10              15

Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
            20              25              30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
            35              40              45

Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
        50              55              60

Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
65                  70              75                  80

Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
                85              90              95

Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
```

```
           100                      105                      110
Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
        115                  120                  125

Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
    130                  135                  140

Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
145                  150                  155                  160

Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
                165                  170                  175

Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
            180                  185
```

<210> 2068
<211> 346
<212> PRT
<213> Homo sapiens

<400> 2068
```
Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
 1               5                  10                  15

Gly Trp Leu Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
            20                  25                  30

Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
        35                  40                  45

Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
    50                  55                  60

Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
65                  70                  75                  80

Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
                85                  90                  95

His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
            100                  105                  110

Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
        115                  120                  125

Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
    130                  135                  140
```

Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
145   150   155   160

Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
                165   170   175

Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
                180   185   190

Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
                195   200   205

Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
        210   215   220

Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
225   230   235   240

Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
                245   250   255

Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
                260   265   270

Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
                275   280   285

Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
        290   295   300

Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
305   310   315   320

Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
                325   330   335

Leu Leu Ala Val Ala Ala Gly Val Leu Leu
                340   345

<210> 2069
<211> 47
<212> PRT
<213> Homo sapiens

<400> 2069
Met Arg Leu Ser Arg Ala Ala His Asn Leu Gln Thr Ile Leu Tyr Ser
  1   5   10   15

Val Phe Cys Leu Cys Leu His Val Ala Met Met Asp Arg Ser Pro Ser
                20   25   30

1564

Ser Ile Leu Ala Leu Trp Arg Ser Gly Ser Cys Ser Val Glu Ile
                35   40   45

<210> 2070
<211> 102
<212> PRT
<213> Homo sapiens

<400> 2070
Met Leu Leu His Trp Leu Leu Gln Asn Glu Leu Gln Ser Ala Val Ala
  1   5   10   15

Ser Cys Leu Val Ser Ile Ser Leu Gly Lys Glu Asp Phe Leu Gln Thr
                20   25   30

Gly Cys Lys Val Lys Ser His Val Gly Val Ile His Arg Arg Glu Lys
                35   40   45

Gly Gly Ala Ile Tyr Leu Pro Asn Ser Leu Val Leu Pro Thr Ser His
     50   55   60

Trp Ile Arg Leu Ser Tyr Arg Asn Arg His Arg Gly Phe Ile Leu Trp
 65   70   75   80

Thr Leu Met Ser Thr Trp Glu Ala Arg Cys His Gly Pro Cys Val Met
                85   90   95

Phe Asp Phe Asn Gln Lys
               100

<210> 2071
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2071
Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
  1   5   10   15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
                20   25   30

1565

```
Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
        35                  40                  45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Val Arg Ala Ser
        50                  55                  60

Cys Pro Gln Leu Arg Leu Gly Arg Val Ala Thr Arg Gly Leu Val Ala
 65                  70                  75                  80

Pro Gly Thr Gly Ala Gly Pro Val Trp Gly Val Gly Leu Glu Val Ala
                 85                  90                  95

Val Arg Val Leu Glu Lys Pro Arg Pro Pro Pro Ala Pro Pro Arg
                100                 105                 110

Pro Arg Arg Pro Pro Asn Gly Pro Phe Ser Arg Asp Leu Pro Gly Phe
        115                 120                 125

Arg Asp Pro Leu Gly Ala Pro Ser Ala Xaa Leu Val Ala Leu Gly Phe
        130                 135                 140
```

```
Met Gly Ser Ser Leu Ala Phe Ile Leu Phe Leu Pro
 1           5                  10
```

```
Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
 1           5                  10                  15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
                 20                  25                  30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
        35                  40                  45
```

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
        50   55   60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
 65   70   75   80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
                 85   90   95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
                100   105   110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
            115   120   125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
    130   135   140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
145   150   155   160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
                165   170   175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
            180   185   190

Arg Phe Phe Glu Val Arg Arg Val Val
    195   200

<210> 2074
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2074
Met Leu Ser Ala Ser Ile Trp Leu Val Leu Ile Ile Ser Arg Gly Asn
 1   5   10   15

Ala Arg Gln Lys Val Lys Leu Cys Phe Leu Leu Met Leu Leu Ala Thr
            20   25   30

Trp Lys Arg Arg Arg Gly Arg Gly Lys Arg Gly Arg Ser
        35   40   45

<210> 2075
<211> 201
<212> PRT

1567

<213> Homo sapiens

<400> 2075
Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
1   5   10   15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
            20   25   30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
        35   40   45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
    50   55   60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
65   70   75   80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
            85   90   95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
            100   105   110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
        115   120   125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
    130   135   140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
145   150   155   160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
            165   170   175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
            180   185   190

Arg Phe Phe Glu Val Arg Arg Val Val
        195   200

<210> 2076
<211> 201
<212> PRT
<213> Homo sapiens

<400> 2076
Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
1   5   10   15

1568

```
Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
            20                  25                  30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu
            35                  40                  45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
        50                  55                  60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr
65                  70                  75                  80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn
                85                  90                  95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
            100                 105                 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn
            115                 120                 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val
        130                 135                 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala
145                 150                 155                 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu
                165                 170                 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys
            180                 185                 190

Arg Phe Phe Glu Val Arg Arg Val Val
        195                 200
```

```
Met Trp Arg Leu Gly Cys Leu Ile Trp Glu Val Phe Asn Gly Pro Leu
  1               5                  10                  15

Pro Arg Ala Ala Ala Leu Arg Asn Pro Gly Lys Ile Pro Lys Thr Leu
            20                  25                  30

Val Pro His Tyr Cys Glu Leu Val Gly Ala Asn Pro Lys Val Arg Pro
```

```
             35                    40                    45

Asn Pro Ala Arg Phe Leu Gln Asn Cys Arg Ala Pro Gly Gly Phe Met
    50                    55                    60

Ser Asn Arg Phe Val Glu Thr Asn Leu Phe Leu Glu Glu Ile Gln Ile
65                    70                    75                    80

Lys Glu Pro Ala Glu Lys Gln Lys Phe Phe Gln Glu Leu Ser Lys Ser
                   85                    90                    95

Leu Asp Ala Phe Pro Glu Asp Phe Cys Arg His Lys Val Leu Pro Gln
                  100                   105                   110

Leu Leu Thr Ala Phe Glu Phe Gly Asn Ala Gly Ala Val Val Leu Thr
                  115                   120                   125

Pro Leu Phe Lys Val Gly Lys Phe Leu Ser Ala Glu Glu Tyr Gln Gln
    130                   135                   140

Lys Ile Ile Pro Val Val Val Lys Met Phe Ser Ser Thr Asp Arg Ala
145                   150                   155                   160

Met Arg Ile Arg Leu Leu Gln Gln Met Glu Gln Phe Ile Gln Tyr Leu
                  165                   170                   175

Asp Glu Pro Thr Val Asn Thr Gln Ile Phe Pro His Val Val His Gly
                  180                   185                   190

Phe Leu Asp Thr Asn Pro Ala Ile Arg Glu Gln Thr Val Lys Ser Met
                  195                   200                   205

Leu Leu Leu Ala Pro Lys Leu Asn Glu Ala Asn Leu Asn Val Glu Leu
    210                   215                   220

Met Lys His Phe Ala Arg Leu Gln Ala Lys Asp Glu Gln Gly Pro Ile
225                   230                   235                   240

Arg Cys Asn Thr Thr Val Cys Leu Gly Lys Ile Gly Ser Tyr Leu Ser
                  245                   250                   255

Ala Ser Thr Arg His Arg Val Leu Thr Ser Ala Phe Ser Arg Ala Thr
                  260                   265                   270

Arg Asp Pro Phe Ala Pro Ser Arg Val Ala Gly Val Leu Gly Phe Ala
                  275                   280                   285

Ala Thr His Asn Leu Tyr Ser Met Asn Asp Cys Ala Gln Lys Ile Leu
    290                   295                   300

Pro Val Leu Cys Gly Leu Thr Val Asp Pro Glu Lys Ser Val Arg Asp
305                   310                   315                   320
```

1570

```
Gln Ala Phe Lys Ala Ile Arg Ser Phe Leu Ser Lys Leu Glu Ser Val
             325             330             335

Ser Glu Asp Pro Thr Gln Leu Glu Glu Val Glu Lys Asp Val His Ala
             340             345             350

Ala Ser Ser Pro Gly Met Gly Gly Ala Ala Ala Ser Trp Ala Gly Trp
             355             360             365

Ala Val Thr Gly Val Ser Ser Leu Thr Ser Lys Leu Ile Arg Ser His
         370             375             380

Pro Thr Thr Ala Pro Thr Glu Thr Asn Ile Pro Gln Arg Pro Thr Pro
385             390             395             400

Glu Gly His Trp Glu Thr Gln Glu Glu Asp Lys Asp Thr Ala Glu Asp
             405             410             415

Ser Ser Thr Ala Asp Arg Trp Asp Asp Glu Asp Trp Gly Ser Leu Glu
             420             425             430

Gln Glu Ala Glu Ser Val Leu Ala Gln Gln Asp Asp Trp Ser Thr Gly
             435             440             445

Gly Gln Val Ser Arg Ala Ser Gln Val Ser Asn Ser Asp His Lys Ser
         450             455             460

Ser Lys Ser Pro Glu Ser Asp Trp Ser Ser Trp Glu Ala Glu Gly Ser
465             470             475             480

Trp Glu Gln Gly Trp Gln Glu Pro Ser Ser Gln Glu Pro Pro Pro Asp
             485             490             495

Gly Thr Arg Leu Ala Ser Glu Tyr Asn Trp Gly Gly Pro Glu Ser Ser
             500             505             510

Asp Lys Gly Asp Pro Phe Ala Thr Leu Ser Ala Arg Pro Ser Thr Gln
             515             520             525

Pro Arg Pro Asp Ser Trp Gly Glu Asp Asn Trp Glu Gly Leu Glu Thr
         530             535             540

Asp Ser Arg Gln Val Lys Ala Glu Leu Ala Arg Lys Lys Arg Glu Glu
545             550             555             560

Arg Arg Arg Glu Met Glu Ala Lys Arg Ala Glu Arg Lys Val Ala Lys
             565             570             575

Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp
             580             585
```

<210> 2078
<211> 124
<212> PRT
<213> Homo sapiens

<400> 2078
Met Arg Gln Val Ala Pro Ala Arg Arg Ala Gln Leu Glu His Ser Gly
 1   5   10   15

Leu His Ala Ser Leu Cys Leu Leu Ser Leu Leu Ser Leu Leu Pro Thr
                20   25   30

Leu Glu Ala Asn Met Ser Gly Phe His Gln Ala Pro Leu Thr Leu Leu
                35   40   45

Pro Ser Cys Thr Gln Gly Asp Gly Glu Ala Arg Gly His His Thr Gln
        50   55   60

Pro Ser Phe Trp Arg Thr Glu Met Lys Cys Pro Val Glu Ala Leu Leu
 65   70   75   80

Glu His Leu Ala Thr Arg Ala Val Val Gly Arg Asn Gly Asp His Gly
                85   90   95

Ala Gln Gln Glu His Arg Thr Ala Ser Glu Gly Gln Gln Gln Pro Leu
                100   105   110

Ala Glu Ser Ser Pro Trp Trp Gln Pro Pro His Gly
                115   120

<210> 2079
<211> 74
<212> PRT
<213> Homo sapiens

<400> 2079
Met Ala Leu Phe Ala Trp Leu Cys Leu Ser Ala Val Val Glu Ser Ser
 1   5   10   15

Ser Pro Gly Met Cys Met Ser Lys Cys Val Leu Ile Val Met Pro Arg
                20   25   30

Gln Lys Pro Leu Glu Asp Cys Cys Arg His Ala Leu Lys Met Thr Ser
                35   40   45

His Ser Ser Glu Lys Leu Gly Asp Leu Thr Pro Glu Gly Leu Lys Ser
        50   55   60

1572

Glu Lys Ser Gln Glu His Leu Gly Phe Lys
 65   70

<210> 2080
<211> 76
<212> PRT
<213> Homo sapiens

<400> 2080
Met Val Val Asp Leu Phe Phe Tyr Leu Leu Cys Ile Phe Leu Val Leu
 1   5   10   15

Trp Val Leu Glu Ala Met Ile Lys His Leu Met Tyr Ser Asp Met Ser
            20   25   30

Ala Leu Ile Ala Ser Phe Ser Ser Phe Leu Asn Cys Ile His Tyr Phe
        35   40   45

Gln Asn Arg Tyr Arg Tyr Ser Val Pro Pro Phe Glu Leu Leu Ala Cys
    50   55   60

Ser Cys Phe Pro Leu Ser Pro Lys Gln Gly Phe Phe
 65   70   75

<210> 2081
<211> 146
<212> PRT
<213> Homo sapiens

<400> 2081
Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu
 1   5   10   15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala
            20   25   30

Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu
        35   40   45

Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr
    50   55   60

Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln
 65   70   75   80

Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys Gly Ser Gly
            85   90   95

1573

```
Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro Pro
            100             105             110

Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Ala Arg Ala
            115             120             125

Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys
    130             135             140

Pro Pro
145


<210> 2082
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2082
Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
  1             5               10              15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln
            20              25              30


<210> 2083
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2083
Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
  1             5               10              15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Ala His Thr Val Ser
            20              25              30

Thr Val His Trp Arg Lys Trp Thr Lys Met Leu Val Gln Ser Pro Thr
            35              40              45

Gln Val Lys Met Asn Val Ser Gln
     50              55
```

<210> 2084
<211> 563
<212> PRT
<213> Homo sapiens

<400> 2084
Met Gly Ser Leu Ser Asn Tyr Ala Leu Leu Gln Leu Thr Leu Thr Ala
1   5   10   15

Phe Leu Thr Ile Leu Val Gln Pro Gln His Leu Leu Ala Pro Val Phe
                20   25   30

Arg Thr Leu Ser Ile Leu Thr Asn Gln Ser Asn Cys Trp Leu Cys Glu
            35   40   45

His Leu Asp Asn Ala Glu Gln Pro Glu Leu Val Phe Val Pro Ala Ser
        50   55   60

Ala Ser Thr Trp Trp Thr Tyr Ser Gly Gln Trp Met Tyr Glu Arg Val
65   70   75   80

Trp Tyr Pro Gln Ala Glu Val Gln Asn His Ser Thr Ser Ser Tyr Arg
                85   90   95

Lys Val Thr Trp His Trp Glu Ala Ser Met Glu Ala Gln Gly Leu Ser
            100   105   110

Phe Ala Gln Val Arg Leu Leu Glu Gly Asn Phe Ser Leu Cys Val Glu
        115   120   125

Asn Lys Asn Gly Ser Gly Pro Phe Leu Gly Asn Ile Pro Lys Gln Tyr
        130   135   140

Cys Asn Gln Ile Leu Trp Phe Asp Ser Thr Asp Gly Thr Phe Met Pro
145   150   155   160

Ser Ile Asp Val Thr Asn Glu Ser Arg Asn Asp Asp Asp Pro Ser
                165   170   175

Val Cys Leu Gly Thr Arg Gln Cys Ser Trp Phe Ala Gly Cys Thr Asn
            180   185   190

Arg Thr Trp Asn Ser Ser Ala Val Pro Leu Ile Gly Leu Pro Asn Thr
            195   200   205

Gln Asp Tyr Lys Trp Val Asp Arg Asn Ser Gly Leu Thr Trp Ser Gly
        210   215   220

Asn Asp Thr Cys Leu Tyr Ser Cys Gln Asn Gln Thr Lys Gly Leu Leu
225   230   235   240

```
Tyr Gln Leu Phe Arg Asn Leu Phe Cys Ser Tyr Gly Leu Thr Glu Ala
            245             250                 255

His Gly Lys Trp Arg Cys Ala Asp Ala Ser Ile Thr Asn Asp Lys Gly
            260             265                 270

His Asp Gly His Arg Thr Pro Thr Trp Trp Leu Thr Gly Ser Asn Leu
            275             280             285

Thr Leu Ser Val Asn Asn Ser Gly Leu Phe Phe Leu Cys Gly Asn Gly
            290             295                 300

Val Tyr Lys Gly Phe Pro Pro Lys Trp Ser Gly Arg Cys Gly Leu Gly
305                 310                 315                 320

Tyr Leu Val Pro Ser Leu Thr Arg Tyr Leu Thr Leu Asn Ala Ser Gln
                325             330                 335

Ile Thr Asn Leu Arg Ser Phe Ile His Lys Val Thr Pro His Arg Cys
            340             345                 350

Thr Gln Gly Asp Thr Asp Asn Pro Pro Leu Tyr Cys Asn Pro Lys Asp
            355             360                 365

Asn Ser Thr Ile Arg Ala Leu Phe Pro Ser Leu Gly Thr Tyr Asp Leu
            370             375             380

Glu Lys Ala Ile Leu Asn Ile Ser Lys Ala Met Glu Gln Glu Phe Ser
385                 390                 395                 400

Ala Thr Lys Gln Thr Leu Glu Ala His Gln Ser Lys Val Ser Ser Leu
            405             410                 415

Ala Ser Ala Ser Arg Lys Asp His Val Leu Asp Ile Pro Thr Thr Gln
            420             425                 430

Arg Gln Thr Ala Cys Gly Thr Val Gly Lys Gln Cys Cys Leu Tyr Ile
            435             440                 445

Asn Tyr Ser Glu Glu Ile Lys Ser Asn Ile Gln Arg Leu His Glu Ala
            450             455                 460

Ser Glu Asn Leu Lys Asn Val Pro Leu Leu Asp Trp Gln Gly Ile Phe
465                 470                 475                 480

Ala Lys Val Gly Asp Trp Phe Arg Ser Trp Gly Tyr Val Leu Leu Ile
            485             490                 495

Val Leu Phe Cys Leu Phe Ile Phe Val Leu Ile Tyr Val Arg Val Phe
            500             505                 510

Arg Lys Ser Arg Arg Ser Leu Asn Ser Gln Pro Leu Asn Leu Ala Leu
```

Ser Pro Gln Gln Ser Ala Gln Leu Leu Val Ser Glu Thr Ser Cys Gln
    530   535   540

Val Ser Asn Arg Ala Met Lys Gly Leu Thr Thr His Gln Tyr Asp Thr
545   550   555   560

Ser Leu Leu

<210> 2085
<211> 599
<212> PRT
<213> Homo sapiens

<400> 2085
Met Glu Leu Leu Gly Pro Val Pro Pro Glu Gln Gln Phe Ile Asn Gln
  1   5   10   15

Lys Met Arg Pro Gly Ser Gly Met Leu Ser Ile Arg Val Ile Pro Asp
            20   25   30

Gly Pro Thr Arg Ala Leu Gln Ile Thr Asp Phe Cys His Arg Lys Ser
            35   40   45

Ser Arg Ser Tyr Glu Val Asp Glu Leu Pro Val Thr Glu Gln Glu Leu
    50   55   60

Gln Lys Leu Lys Asn Pro Asp Thr Glu Gln Glu Leu Glu Val Leu Val
 65   70   75   80

Arg Leu Glu Gly Gly Ile Gly Leu Ser Leu Ile Asn Lys Val Pro Glu
                85   90   95

Glu Leu Val Phe Ala Ser Leu Thr Gly Ile Asn Val His Tyr Thr Gln
            100   105   110

Leu Ala Thr Ser His Met Leu Glu Leu Ser Ile Gln Asp Val Gln Val
            115   120   125

Asp Asn Gln Leu Ile Gly Thr Thr Gln Pro Phe Met Leu Tyr Val Thr
    130   135   140

Pro Leu Ser Asn Glu Asn Glu Val Ile Glu Thr Gly Pro Ala Val Gln
145   150   155   160

Val Asn Ala Val Lys Phe Pro Ser Lys Ser Ala Leu Thr Asn Ile Tyr
                165   170   175

```
Lys His Leu Met Ile Thr Ala Gln Arg Phe Thr Val Gln Ile Glu Glu
            180                 185                 190

Lys Leu Leu Leu Lys Leu Leu Ser Phe Phe Gly Tyr Asp Gln Ala Glu
            195                 200                 205

Ser Glu Val Glu Lys Tyr Asp Glu Asn Leu His Glu Lys Thr Ala Glu
    210                 215                 220

Gln Gly Gly Thr Pro Ile Arg Tyr Tyr Phe Glu Asn Leu Lys Ile Ser
225                 230                 235                 240

Ile Pro Gln Ile Lys Leu Ser Val Phe Thr Ser Asn Lys Leu Pro Leu
                245                 250                 255

Asp Leu Lys Ala Leu Lys Ser Thr Leu Gly Phe Pro Leu Ile Arg Phe
                260                 265                 270

Glu Asp Ala Val Ile Asn Leu Asp Pro Phe Thr Arg Val His Pro Tyr
            275                 280                 285

Glu Thr Lys Glu Phe Ile Ile Asn Asp Ile Leu Lys His Phe Gln Glu
    290                 295                 300

Glu Leu Leu Ser Gln Ala Ala Arg Ile Leu Gly Ser Val Asp Phe Leu
305                 310                 315                 320

Gly Asn Pro Met Gly Leu Leu Asn Asp Val Ser Glu Gly Val Thr Gly
                325                 330                 335

Leu Ile Lys Tyr Gly Asn Val Gly Gly Leu Ile Arg Asn Val Thr His
                340                 345                 350

Gly Val Ser Asn Ser Ala Gly Lys Phe Ala Gly Thr Leu Ser Asp Gly
    355                 360                 365

Leu Gly Lys Thr Met Asp Asn Arg His Gln Ser Glu Arg Glu Tyr Ile
    370                 375                 380

Arg Tyr His Ala Ala Thr Ser Gly Glu His Leu Val Ala Gly Ile His
385                 390                 395                 400

Gly Leu Ala His Gly Ile Ile Gly Gly Leu Thr Ser Val Ile Thr Ser
                405                 410                 415

Thr Val Glu Gly Val Lys Thr Glu Gly Gly Val Ser Gly Phe Ile Ser
            420                 425                 430

Gly Leu Gly Lys Gly Leu Val Gly Thr Val Thr Lys Pro Val Ala Gly
            435                 440                 445

Ala Leu Asp Phe Ala Ser Glu Thr Ala Gln Ala Val Arg Asp Thr Ala
```

Thr Leu Ser Gly Pro Arg Thr Gln Ala Gln Arg Val Arg Lys Pro Arg
465   470   475   480

Cys Cys Thr Gly Pro Gln Gly Leu Leu Pro Arg Tyr Ser Glu Ser Gln
            485   490   495

Ala Glu Gly Gln Glu Gln Leu Phe Lys Leu Thr Asp Asn Ile Gln Asp
            500   505   510

Glu Phe Phe Ile Ala Val Glu Asn Ile Asp Ser Tyr Cys Val Leu Ile
        515   520   525

Ser Ser Lys Ala Val Tyr Phe Leu Lys Ser Gly Asp Tyr Val Asp Arg
    530   535   540

Glu Ala Ile Phe Leu Glu Val Lys Tyr Asp Asp Leu Leu Pro Leu Pro
545   550   555   560

Cys Leu Gln Arg Pro Trp Glu Gly Val Cys Ala Gly Asp Gln Glu Ser
            565   570   575

Arg Glu His Glu Gln Trp Ser Val His Pro Arg Pro Leu Pro Pro Glu
        580   585   590

Ala His Gly Pro Cys Glu Ile
        595

<210> 2086
<211> 239
<212> PRT
<213> Homo sapiens

<400> 2086
Met Ala Pro Leu Leu Pro Ser Leu Pro Leu His Leu His Thr Ser Leu
 1   5   10   15

Cys Leu Arg Leu Cys Leu Ser Leu Ser Leu Ser Ala Trp Leu Ser Trp
            20   25   30

Ser Leu Pro Leu Cys Val Ser Leu Ser Ala Ser Tyr Pro Ala Trp Arg
        35   40   45

Leu Leu Pro Gln Leu His Gly Arg Ser Arg Glu Gln Arg Tyr Thr Lys
    50   55   60

Leu Ala Asp Trp Gln Tyr Ile Glu Glu Cys Val Gln Ala Ala Ser Pro
 65   70   75   80

Met Pro Leu Phe Gly Asn Gly Asp Ile Leu Ser Phe Glu Asp Ala Asn
                85   90   95

Arg Ala Met Gln Thr Gly Val Thr Gly Ile Met Ile Ala Arg Gly Ala
                100   105   110

Leu Leu Lys Pro Trp Leu Phe Thr Glu Ile Lys Glu Gln Arg His Trp
            115   120   125

Asp Ile Ser Ser Ser Glu Arg Leu Asp Ile Leu Arg Asp Phe Thr Asn
        130   135   140

Tyr Gly Leu Glu His Trp Gly Ser Asp Thr Gln Gly Val Glu Lys Thr
145   150   155   160

Arg Arg Phe Leu Leu Glu Trp Leu Ser Phe Leu Cys Arg Tyr Val Pro
            165   170   175

Val Gly Leu Leu Glu Arg Leu Pro Gln Arg Ile Asn Glu Arg Pro Pro
            180   185   190

Tyr Tyr Leu Gly Arg Asp Tyr Leu Glu Thr Leu Met Ala Ser Gln Lys
            195   200   205

Ala Ala Asp Trp Ile Arg Ile Ser Glu Met Leu Leu Gly Pro Val Pro
        210   215   220

Pro Ser Phe Ala Phe Leu Pro Lys His Lys Ala Asn Ala Tyr Lys
225   230   235

<210> 2087
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2087
Met Ala Gln Tyr Ile Leu Val Ile Ile Leu Ile Ser Phe Cys Ser Asp
  1   5   10   15

Ser Leu Ser Gly Arg Ala Gln Asn Gly Thr Glu Ile Asn Gln Thr Val
            20   25   30

Ile Leu Ile Cys Ser Leu Arg Phe Phe Lys Ser Glu Ala Ile Asp Ala
        35   40   45

Cys Leu Met His Pro His Thr Ala Cys Leu Thr Gly Asp Ala Thr Leu
    50   55   60

Leu Ser Ser Ser Ala Met Lys His Lys Arg Gln Arg Lys Ser Arg Tyr
 65   70   75   80

1580

```
Thr Ser His Arg Glu His Phe Arg Val Pro Gln Arg Trp Trp Gln Glu
                85                  90                  95

Ala His Ser Arg Val Ser Ile Arg Val Cys Val Trp Val Ser Gly Ile
            100                 105                 110

Ser Val Ala Pro Ile Phe Leu His Cys Ser Glu His Pro Val Leu
        115                 120                 125



<210> 2088
<211> 138
<212> PRT
<213> Homo sapiens

<400> 2088
Met Lys Met Met Val Val Leu Leu Met Leu Ser Ser Leu Ser Arg Leu
  1               5                  10                  15

Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val
            20                  25                  30

Pro Leu Pro Pro Cys Gln Glu Gln Gln Pro Lys Ala Ser Ala Glu Leu
        35                  40                  45

Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly
    50                  55                  60

Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu
 65             70                  75                      80

Gln Leu Leu Cys Met Gln Leu Asp Arg His Ile Ser Thr Gln Ile Arg
                85                  90                  95

Glu Ser Pro Gln Ala Met His Arg Thr Met Leu Lys Asp Leu Ala Thr
            100                 105                 110

Gln Thr Tyr Ile Arg Trp Gln Glu Leu Leu Thr His Cys Gln Pro Gln
        115                 120                 125

Ala Gln Tyr Phe Ser Pro Trp Lys Asp Ile
    130                 135



<210> 2089
<211> 132
<212> PRT
<213> Homo sapiens
```

1581

```
<400> 2089
Met Glu Ile Tyr Leu Ser Leu Gly Val Leu Ala Leu Gly Thr Leu Ser
  1               5                  10                  15

Leu Leu Ala Val Thr Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp
             20                  25                  30

Arg Glu Phe Ser Phe Val Gln Ser Ser Leu Gly Phe Val Ala Leu Val
         35                  40                  45

Leu Ser Thr Leu His Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu
     50                  55                  60

Glu Ser Arg Tyr Lys Phe Tyr Leu Pro Pro Thr Phe Thr Leu Thr Leu
 65              70                  75                      80

Leu Val Pro Cys Val Val Ile Leu Ala Lys Ala Leu Phe Leu Leu Pro
             85                  90                      95

Cys Ile Ser Arg Arg Leu Ala Arg Ile Arg Arg Gly Trp Glu Arg Glu
             100             105             110

Ser Thr Ile Lys Phe Thr Leu Pro Thr Asp His Ala Leu Ala Glu Lys
             115             120             125

Thr Ser His Val
    130


<210> 2090
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2090
Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
```

```
       1                5                      10                     15
       Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
                    20                  25                  30

       Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
                    35                  40                  45

       Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
                50                  55                  60

       Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
       65                  70                  75                  80

       Ser Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val
                        85                  90                  95

       Glu Asp Leu His His Tyr Arg Asn Leu Ser Xaa Phe Xaa Arg Arg Lys
                    100                 105                 110

       Leu Lys Ala Xaa Gly Pro Ala Cys Leu Trp Pro Ala Gln Arg Asp
                115                 120                 125
```

<210> 2091
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2091
```
       Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
       1                5                      10                     15

       Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
                    20                  25                  30

       Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
                    35                  40                  45

       Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
                50                  55                  60

       Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
       65                  70                  75                  80

       Ser Leu Tyr Ile Trp Thr Xaa Gly Gly
```

1583

<210> 2092
<211> 90
<212> PRT
<213> Homo sapiens

<400> 2092
Met Asp Trp Ala Val Leu Thr Val Val Leu Gly Pro Cys Val Pro Gly
1   5   10   15

Leu Ser Gly Ser Pro Pro Trp Pro Leu Pro Ser Ser His Leu Leu Glu
            20   25   30

Ala Lys Leu Cys Glu Thr Trp His Ser Phe Gln Thr Ser Val Pro Pro
        35   40   45

Arg Pro Cys Ala Gly Val Thr Pro Glu Leu Arg Met Ser Ala Arg Ser
    50   55   60

Arg Gln Tyr Arg Glu Gly Thr Gln Arg Lys Ala Ser Gln Leu Ser Lys
65   70   75   80

Asp Arg Asp Arg Leu Trp Ser Gly Arg Ala
                85   90

<210> 2093
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2093
Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu
1   5   10   15

Gly Leu Val Leu Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala
            20   25   30

```
Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
        35                  40                  45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
        50                  55                  60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
65                  70                  75                  80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Val Leu His Arg Phe Leu
                85                  90                  95

Arg Xaa Gly Xaa Gly Leu Leu Gly Ser Trp Thr Gly Leu Glu
                100                 105                 110


<210> 2094
<211> 374
<212> PRT
<213> Homo sapiens

<400> 2094
Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu
  1               5                  10                  15

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala
                20                  25                  30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
        35                  40                  45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
        50                  55                  60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
65                  70                  75                  80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Met Val Pro Ile Pro Ala
                85                  90                  95

Gly Val Phe Thr Met Gly Thr Asp Asp Pro Gln Ile Lys Gln Asp Gly
                100                 105                 110

Glu Ala Pro Ala Arg Arg Val Thr Ile Asp Ala Phe Tyr Met Asp Ala
                115                 120                 125

Tyr Glu Val Ser Asn Thr Glu Phe Glu Lys Phe Val Asn Ser Thr Gly
        130                 135                 140

Tyr Leu Thr Glu Ala Glu Lys Phe Gly Asp Ser Phe Val Phe Glu Gly
145                 150                 155                 160


                              1585
```

```
Met Leu Ser Glu Gln Val Lys Thr Asn Ile Gln Gln Ala Val Ala Ala
              165                 170              175

Ala Pro Trp Trp Leu Pro Val Lys Gly Ala Asn Trp Arg His Pro Glu
              180                 185              190

Gly Pro Asp Ser Thr Ile Leu His Arg Pro Asp His Pro Val Leu His
              195                 200              205

Val Ser Trp Asn Asp Ala Val Ala Tyr Cys Thr Trp Ala Gly Lys Arg
      210                 215              220

Leu Pro Thr Glu Ala Glu Trp Glu Tyr Ser Cys Arg Gly Gly Leu His
225                 230              235                    240

Asn Arg Leu Phe Pro Trp Gly Asn Lys Leu Gln Pro Lys Gly Gln His
              245                 250              255

Tyr Ala Asn Ile Trp Gln Gly Glu Phe Pro Val Thr Asn Thr Gly Glu
              260                 265              270

Asp Gly Phe Gln Gly Thr Ala Pro Val Asp Ala Phe Pro Pro Asn Gly
              275                 280              285

Tyr Gly Leu Tyr Asn Ile Val Gly Asn Ala Trp Glu Trp Thr Ser Asp
      290                 295              300

Trp Trp Thr Val His His Ser Val Glu Glu Thr Leu Asn Pro Lys Gly
305                 310              315                    320

Pro Pro Ser Gly Lys Asp Arg Val Lys Lys Gly Gly Ser Tyr Met Cys
              325                 330              335

His Arg Ser Tyr Cys Tyr Arg Tyr Arg Cys Ala Ala Arg Ser Gln Asn
              340                 345              350

Thr Pro Asp Ser Ser Ala Ser Asn Leu Gly Phe Arg Cys Ala Ala Asp
              355                 360              365

Arg Leu Pro Thr Met Asp
      370


<210> 2095
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2095
Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser
```

1586

```
   1                      5                          10                         15
Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys
            20                  25                  30

Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile
        35                  40                  45

Asn Arg Thr Ala Asn
        50
```

<210> 2096
<211> 215
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2096
```
Met Leu Pro Trp Thr Ala Xaa Gly Leu Ala Leu Ser Leu Arg Leu Ala
  1                  5                  10                  15

Leu Ala Arg Ser Gly Ala Glu Arg Gly Pro Pro Ala Ser Ala Pro Arg
            20                  25                  30

Gly Asp Leu Met Phe Leu Leu Asp Ser Ser Ala Ser Val Ser His Tyr
        35                  40                  45

Glu Phe Ser Arg Val Arg Glu Phe Val Gly Gln Leu Val Ala Pro Leu
    50                  55                  60

Pro Leu Gly Thr Gly Ala Leu Arg Ala Ser Leu Val His Val Gly Ser
 65                  70                  75                  80

Arg Pro Tyr Thr Glu Phe Pro Phe Gly Gln His Ser Ser Gly Glu Ala
                85                  90                  95

Ala Gln Asp Ala Val Arg Ala Ser Ala Gln Arg Met Gly Asp Thr His
            100                 105                 110

Thr Gly Leu Ala Leu Val Tyr Ala Lys Glu Gln Leu Phe Ala Glu Ala
        115                 120                 125

Ser Gly Ala Arg Pro Gly Val Pro Lys Val Leu Val Trp Val Thr Asp
    130                 135                 140

Gly Gly Ser Ser Asp Pro Val Gly Pro Pro Met Gln Glu Leu Lys Asp
```

1587

Leu Gly Val Thr Val Phe Ile Val Ser Thr Gly Arg Gly Asn Phe Leu
             165   170   175

Glu Leu Ser Ala Ala Ala Ser Ala Pro Ala Glu Lys His Leu His Phe
             180   185   190

Val Asp Val Asp Asp Leu His Ile Ile Val Gln Glu Leu Arg Gly Ser
         195   200   205

Ile Leu Asp Ala Met Arg Pro
    210   215

<210> 2097
<211> 127
<212> PRT
<213> Homo sapiens

<400> 2097
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
  1   5   10   15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
              20   25   30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
          35   40   45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
      50   55   60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
  65   70   75   80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
              85   90   95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
          100   105   110

Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
          115   120   125

<210> 2098
<211> 188
<212> PRT
<213> Homo sapiens

<400> 2098
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1   5   10   15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
                20   25   30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
            35   40   45

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
        50   55   60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
65   70   75   80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
                85   90   95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
            100   105   110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
            115   120   125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
        130   135   140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
145   150   155   160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
                165   170   175

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp
            180   185

<210> 2099
<211> 72
<212> PRT
<213> Homo sapiens

<400> 2099
Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe
 1   5   10   15

Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala
                20   25   30

1589

Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys
        35   40   45

Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro
        50   55   60

Val Leu Arg Tyr Ala Ser Ile Glu
65   70

<210> 2100
<211> 112
<212> PRT
<213> Homo sapiens

<400> 2100
Met Ala Tyr Leu Thr Leu Phe Gln Met Gly Ser Trp Met Ser Phe Ser
 1   5   10   15

Leu Ser Leu Cys Ser Leu Leu Phe Ile Leu Thr Gly His Cys Leu Ser
            20   25   30

Glu Asn Phe Tyr Val Arg Gly Asp Gly Thr Arg Ala Tyr Phe Phe Thr
        35   40   45

Lys Gly Glu Val His Ser Met Phe Cys Lys Ala Ser Leu Asp Glu Lys
        50   55   60

Gln Asn Leu Val Asp Arg Arg Leu Gln Val Asn Arg Lys Lys Gln Val
65   70   75   80

Lys Met His Arg Val Trp Ile Gln Gly Lys Phe Gln Lys Pro Leu His
                85   90   95

Gln Thr Gln Asn Ser Ser Asn Met Val Ser Thr Leu Leu Ser Gln Asp
            100   105   110

<210> 2101
<211> 80
<212> PRT
<213> Homo sapiens

<400> 2101
Met Gly Trp Ile Asp Leu Leu Leu Pro Glu Leu Gly Ala Leu Arg Val
 1   5   10   15

Phe Leu His Leu Phe Leu Val Ala Leu Arg Thr Lys Arg Trp Ile Phe
            20   25   30

Arg Thr Leu Gly Gln Leu Thr Cys Val Asn Ile Leu Gly Asp Ser Arg
            35   40   45

Lys Lys Arg Glu Cys Arg Leu Asn Lys Arg Gln Leu Gln Phe Gly Glu
        50   55   60

Lys Thr Leu Gln Val Pro Glu Arg Leu Val Val Arg His Ser Pro Phe
    65   70   75   80

<210> 2102
<211> 49
<212> PRT
<213> Homo sapiens

<400> 2102
Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu
  1   5   10   15

Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys
            20   25   30

Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser
            35   40   45

Ile

<210> 2103
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2103
Met Ala Gln Val Leu Ala Ser Glu Leu Ser Leu Val Ala Phe Ile Leu
  1   5   10   15

Leu Leu Val Met Ala Phe Ser Lys Lys Trp Leu Asp Leu Ser Arg Ser

1591

Leu Phe Tyr Gln Arg Trp Pro Val Asp Val Ser Asn Arg Ile His Thr
            35   40   45

Ser Ala His Val Met Ser Met Gly Leu Leu His Phe Cys Lys Ser Arg
        50   55   60

Ser Cys Ser Asp Leu Glu Asn Gly Lys Val Thr Phe Ile Phe Ser Thr
    65   70   .   75   80

Leu Met Leu Phe Pro Ile Asn Ile Trp Ile Phe Glu Leu Glu Arg Asn
                85   .   90   95

Val Ser Ile Pro Ile Gly Trp Ser Tyr Phe Ile Gly Trp Leu Val Leu
                100   105   110

Ile Leu Tyr Phe Thr Cys Ala Ile Leu Cys Tyr Phe Asn His Lys Ser
            115   120   125

Phe Trp Ser Leu Ile Leu Ser His Pro Ser Gly Ala Val Ser Xaa Ser
    130   135   140

Ser Ser Phe Gly Ser Val Glu Glu Ser Pro Arg Ala Gln Thr Ile Thr
145   150   155   160

Asp Thr Pro Ile Thr Gln Glu Gly Val Leu Asp Pro Glu Gln Lys Asp
                165   170   175

Thr His Val

<210> 2104
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2104
Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro
  1   .   5   10   15   .

Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
            20   25   30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
            35   40   45

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
    50   55   60

```
Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
 65              70              75              80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu
                85              90              95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro
            100             105             110

Asn Ile Gln Leu Cys Phe Met Leu Thr His
        115             120
```

<210> 2105
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2105
```
Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro
 1               5               10              15

Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
            20              25              30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln
        35              40              45

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
    50              55              60

Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr
 65              70              75              80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu
                85              90              95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro
            100             105             110

Asn Ile Gln Leu Cys Phe Met Leu Thr His
        115             120
```

<210> 2106
<211> 459
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (345)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2106
```
Met Gly Gly Pro Arg Ala Trp Ala Leu Leu Cys Leu Gly Leu Leu Leu
 1               5                  10                  15

Pro Gly Gly Gly Ala Ala Trp Ser Ile Gly Ala Ala Pro Phe Ser Gly
            20                  25                  30

Arg Arg Asn Trp Cys Ser Tyr Val Val Thr Arg Thr Ile Ser Cys His
            35                  40                  45

Val Gln Asn Gly Thr Tyr Leu Gln Arg Val Leu Gln Asn Cys Pro Trp
    50                  55                  60

Pro Met Ser Cys Pro Gly Ser Ser Tyr Arg Thr Val Val Arg Pro Thr
65                  70                  75                  80

Tyr Lys Val Met Tyr Lys Ile Val Thr Ala Arg Glu Trp Arg Cys Cys
                85                  90                  95

Pro Gly His Ser Gly Val Ser Cys Glu Glu Val Ala Ala Ser Ser Ala
            100                 105                 110

Ser Leu Glu Pro Met Trp Ser Gly Ser Thr Met Arg Arg Met Ala Leu
        115                 120                 125

Arg Pro Thr Ala Phe Ser Gly Cys Leu Asn Cys Ser Lys Val Ser Glu
    130                 135                 140

Leu Thr Glu Arg Leu Lys Val Leu Glu Ala Lys Met Thr Met Leu Thr
145                 150                 155                 160

Val Ile Glu Gln Pro Val Pro Pro Thr Pro Ala Thr Pro Glu Asp Pro
                165                 170                 175

Ala Pro Leu Trp Gly Pro Pro Pro Ala Gln Gly Ser Pro Gly Asp Gly
            180                 185                 190

Gly Leu Gln Asp Gln Val Gly Ala Trp Gly Leu Pro Gly Pro Thr Gly
        195                 200                 205

Pro Lys Gly Asp Ala Gly Ser Arg Gly Pro Met Gly Met Arg Gly Pro
    210                 215                 220
```

1594

Pro Gly Pro Gln Gly Pro Pro Gly Ser Pro Gly Arg Ala Gly Ala Val
225   230   235   240

Gly Thr Pro Gly Glu Arg Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
            245   250   255

Pro Pro Gly Pro Pro Ala Pro Val Gly Pro Pro His Ala Arg Ile Ser
        260   265   270

Gln His Gly Asp Pro Leu Leu Ser Asn Thr Phe Thr Glu Thr Asn Asn
        275   280   285

His Trp Pro Gln Gly Pro Thr Gly Pro Pro Gly Pro Pro Gly Pro Met
    290   295   300

Gly Pro Pro Gly Pro Pro Gly Pro Thr Gly Val Pro Gly Ser Pro Gly
305   310   315   320

Xaa Ile Gly Pro Pro Gly Pro Thr Gly Pro Lys Gly Ile Ser Gly His
            325   330   335

Pro Gly Glu Lys Gly Glu Lys Lys Xaa Leu Arg Gly Glu Pro Gly Pro
        340   345   350

Gln Gly Ser Ala Gly Gln Arg Gly Glu Pro Gly Pro Lys Gly Asp Pro
        355   360   365

Gly Glu Lys Ser His Trp Asn Gln Ser Trp Gly Leu Gly Gly Pro Cys
370   375   380

Arg His Arg His Pro Gln Pro Pro Ser Gly Gln Glu Gly Gly His Ala
385   390   395   400

Thr Asn Tyr Arg Asp Arg Gly Pro Gln Glu Pro Gly Arg Glu Arg Leu
            405   410   415

Arg Val Val Ala Ala Pro Glu Ala Asp Gln Ala Arg Leu Pro Leu Leu
        420   425   430

Pro Gly Leu Gly Gln Leu Pro Pro Gly Thr Ala Arg Pro Tyr Leu Leu
        435   440   445

Met Ser Ser Gly Ser Leu Leu Pro Ser Arg Pro
    450   455

<210> 2107
<211> 615
<212> PRT
<213> Homo sapiens

1595

```
<400> 2107
Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe
  1               5                  10                    15

Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu
           20                  25                  30

Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn
         35                  40                  45

Pro Pro Val Leu Pro Ala Pro Gln Lys Ala Asp Thr Asp Pro Glu Asn
       50                  55                  60

Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly
 65                  70                  75                  80

Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly
               85                  90                  95

Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg
       .         100                 105                 110      .

Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val
           115                 120                 125

Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val
       130                 135                 140

Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val
145                 150                 155                 160

His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala
               165   .               170                 175

Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro
               180                 185                 190

Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile
           195                 200                 205

Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu
       210                 215                 220

Glu Ala Arg Lys Trp Val Ser Lys Lys Leu His Phe Glu Lys Asp Val
225                 230                 235                 240

Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu
               245                 250                 255

Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu
               260                 265                 270
```

1596

Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Ile
        275   280   285

Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg
        290   295   300

Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu
305   310   315   320

Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Lys Phe Gln Glu Ala
                325   330   335

Val Glu Lys Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp
        340   345   350

Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His
        355   360   365

Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr
    370   375   380

Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu
385   390   395   400

Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg
                405   410   415

His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly
            420   425   430

Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr
        435   440   445

Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu
    450   455   460

Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu
465   470   475   480

Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro
                485   490   495

Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu
            500   505   510

Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly
        515   520   525

Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser
    530   535   540

Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val

1597

Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe
                565   570   575

Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro
                580   585   590

Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro
                595   600   605

Leu Pro Ile Trp Thr Pro Ala
    610   615

<210> 2108
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (239)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (335)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2108
Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
 1   5   10   15

Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
        20   25   30

Lys Val Leu Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val
        35   40   45

Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe
    50   55   60

Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr
65   70   75   80

Leu Ser Tyr Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa
                85   90   95

Ser Xaa Leu Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu
        100   105   110

Ala Lys Ile Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val
        115   120   125

Leu Met Gly Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly
    130   135   140

Arg Gln Ser Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn
145   150   155   160

Ala Ala Glu Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu
            165   170   175

Gln Pro His Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa
            180   185   190

Tyr Thr Lys Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val
        195   200   205

Leu Xaa Pro Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys
    210   215   220

Ala Leu Pro Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile
225   230   235   240

Ser Ile Leu Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser
            245   250   255

Lys Pro Ile Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg
            260   265   270

Ser Arg Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe
        275   280   285

1600

```
Arg Lys Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro
    290             295             300
```

```
Phe Ser Ala Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe
305             310             315             320
```

```
Ser Ser Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Xaa Val
            325             330             335
```

```
Ser Ala Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr
            340             345             350
```

```
Thr Ala Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn
        355             360             365
```

```
Met Pro Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro
    370             375             380
```

```
Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys
385             390             395             400
```

```
Gln Thr Glu Thr
```

<210> 2109
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2109
```
Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser
 1               5               10              15
```

```
Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys
            20              25              30
```

```
Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser
            35              40              45
```

<210> 2110
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2110
```
Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser
 1               5               10              15
```

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys
                20   25   30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser
            35   40   45

<210> 2111
<211> 257
<212> PRT
<213> Homo sapiens

<400> 2111
Met Glu Met Ile Ile Gln Phe Gly Phe Val Thr Leu Phe Val Ala Ser
  1   5   10   15

Phe Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn Asn Ile Ile Glu Ile
                20   25   30

Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val Ala
            35   40   45

Val Arg Ala Lys Asp Ile Gly Ile Trp Tyr Asn Ile Leu Arg Gly Ile
        50   55   60

Gly Lys Leu Ala Val Ile Ile Asn Ala Phe Val Ile Ser Phe Thr Ser
 65   70   75   80

Asp Phe Ile Pro Arg Leu Val Tyr Leu Tyr Met Tyr Ser Lys Asn Gly
                85   90   95

Thr Met His Gly Phe Val Asn His Thr Leu Ser Ser Phe Asn Val Ser
            100   105   110

Asp Phe Gln Asn Gly Thr Ala Pro Asn Asp Pro Leu Asp Leu Gly Tyr
            115   120   125

Glu Val Gln Ile Cys Arg Tyr Lys Asp Tyr Arg Glu Pro Pro Trp Ser
        130   135   140

Glu Asn Lys Tyr Asp Ile Ser Lys Asp Phe Trp Ala Val Leu Ala Ala
145   150   155   160

Arg Leu Ala Phe Val Ile Val Phe Gln Asn Leu Val Met Phe Met Ser
                165   170   175

Asp Phe Val Asp Trp Val Ile Pro Asp Ile Pro Lys Asp Ile Ser Gln
            180   185   190

Gln Ile His Lys Glu Lys Val Leu Met Val Glu Leu Phe Met Arg Glu
            195   200   205

1602

Glu Gln Asp Lys Gln Gln Leu Leu Glu Thr Trp Met Glu Lys Glu Arg
    210   215   220

Gln Lys Asp Glu Pro Pro Cys Asn His His Asn Thr Lys Ala Cys Pro
225   230   235   240

Asp Ser Leu Gly Ser Pro Ala Pro Ser His Ala Tyr His Gly Gly Val
                245   250   255

Leu

<210> 2112
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2112
Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
 1   5   10   15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala
            20   25   30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val
            35   40   45

Arg Arg
    50

<210> 2113
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2113
Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
 1   5   10   15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala
            20   25   30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val
            35   40   45

Arg Arg
    50

<210> 2114
<211> 74
<212> PRT
<213> Homo sapiens

<400> 2114
Met Val Leu Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro
1   5   10   15

Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile
                20   25   30

Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala
            35   40   45

Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu
        50   55   60

Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser
65   70

<210> 2115
<211> 94
<212> PRT
<213> Homo sapiens

<400> 2115
Met Trp Pro Trp Trp Leu Met Val Glu Arg Thr Val Val Leu Leu Leu
1   5   10   15

Ile Thr Tyr Leu Val Pro Val Gly Gly Ser Ala Val Gly Pro Pro Gly
                20   25   30

Pro Gly Cys Asn Val Ser Thr Ser Pro Pro Pro Ala Thr Arg Cys
            35   40   45

Pro Asp Glu Ser Glu Leu Tyr Arg Asp Pro Gly Glu Ala Pro Leu Glu
        50   55   60

Ala Asp Gln Ala Glu Arg Gly Ala Ala His Glu Gly Gly His Pro Gly
65   70   75   80

Arg Asp Pro Trp Gly Ala Arg Arg Gly Pro Pro Arg Cys Gly
                85   90

1604

<210> 2116
<211> 180
<212> PRT
<213> Homo sapiens

<400> 2116
Met Ala Ile Cys Ser Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe
1   5   10   15

Leu Glu Thr Leu Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys
                20   25   30

Ile Gly Leu Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile
            35   40   45

Ile Gln Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met
        50   55   60

Glu Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro
65   70   75   80

Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn
                85   90   95

Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu
                100   105   110

Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys
                115   120   125

Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala Glu His Ser Leu
        130   135   140

Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro
145   150   155   160

Phe Val Ala Cys Ile Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu
                165   170   175

Asp Gln Thr Ser
            180

<210> 2117
<211> 80
<212> PRT
<213> Homo sapiens

<400> 2117
Met Trp Pro Arg Met Leu Ala Phe Ser Thr Trp Leu Glu Trp Leu Leu
1   5   10   15

1605

Phe Ser Pro Leu Pro Gln Ser Val Gly Cys Pro Gly Pro Leu Glu Phe
            20   25   30

Tyr Cys Val Gln Asp Arg Arg Pro Pro Ser Leu Pro Asp Gly Ala Asp
            35   40   45

His Phe Ser Ser Pro Thr Arg Ile Thr Ser Ser Ser Ile Ser Pro Ala
        50   55   60

Leu Ser Leu Gln Ala Pro Glu Ala Gly Gly Phe Leu Ser Ile Pro Gly
    65   70   75   80

<210> 2118
<211> 21
<212> PRT
<213> Homo sapiens

<400> 2118
Met His Asp Val Leu Phe Phe Leu Ser Phe Ser Leu Val Ala Cys Val
    1   5   10   15

Lys Ala Gly Met Leu
                20

<210> 2119
<211> 291
<212> PRT
<213> Homo sapiens

<400> 2119
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
    1   5   10   15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
            20   25   30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
            35   40   45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
        50   55   60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
    65   70   75   80

1606

```
Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
                85                   90                   95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
            100                 105                 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
        115                 120                 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
        130                 135                 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
145                 150                 155                 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
            165                 170                 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
            180                 185                 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
        195                 200                 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
        210                 215                 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Met
225                 230                 235                 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Asn Lys Glu Leu Lys Ile
            245                 250                 255

Leu Ser Met Ile Leu Pro Leu Ile Tyr Leu Cys Leu Asn Pro Thr Val
            260                 265                 270

Ser Gln Asn Gln Asn Ser Phe Tyr Leu Arg Pro Gly Phe Leu Ser Val
            275                 280                 285

Leu Phe Phe
    290


<210> 2120
<211> 257
<212> PRT
<213> Homo sapiens

<400> 2120
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
```

```
     1                    5                        10                          15

   Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
               20                  25                  30

   Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
           35                  40                  45

   Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
       50                  55                  60

   Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
   65                  70                  75                      80

   Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
               85                  90                  95

   Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
               100                 105                 110

   Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
           115                 120                 125

   Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
       130                 135                 140

   Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
   145                 150                 155                     160

   Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
               165                 170                 175

   Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
               180                 185                 190

   Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
           195                 200                 205

   Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
       210                 215                 220

   Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
   225                 230                 235                     240

   Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln
               245                 250                 255

   Ser
```

<210> 2121
<211> 257
<212> PRT
<213> Homo sapiens

<400> 2121
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1   5   10   15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
            20   25   30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
            35   40   45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
        50   55   60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
65   70   75   80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
                85   90   95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
            100   105   110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
        115   120   125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
        130   135   140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
145   150   155   160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
                165   170   175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala
            180   185   190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
        195   200   205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
        210   215   220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
225   230   235   240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln

                              1609

Ser

<210> 2122
<211> 352
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (284)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2122
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile
 1   5   10   15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile
            20   25   30

Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
            35   40   45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
        50   55   60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val
 65   70   75   80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
                85   90   95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe
            100   105   110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
        115   120   125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr
        130   135   140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu
145   150   155   160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr
                165   170   175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
        195   200   205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
        210   215   220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val
225   230   235   240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr
                245   250   255

Phe Trp Pro Thr Pro Lys Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu
            260   265   270

Pro Ile Leu Ile His Leu Cys Ile Trp Val Leu Xaa Ala Ala Val Asp
        275   280   285

Tyr Leu Leu Tyr Arg Leu Ile Phe Ser Val Ser Lys Gln Phe Gln Ser
    290   295   300

Leu Pro Gly Phe Glu Val His Leu Lys Leu His Gly Glu Lys Gln Gly
305   310   315   320

Thr Gln Asp Ile Ile His Asp Ser Ser Phe Asn Ile Ser Val Phe Glu
            325   330   335

Pro Asn Cys Ile Pro Lys Pro Trp Gln Ala Leu Lys Leu Leu Ala His
        340   345   350

Met Val Ser Cys Ser Ile Leu Ala Leu Thr His Leu Leu Phe Glu Phe
  1   5   10   15

Lys Gly Leu Met Gly Thr Ser Thr Val Glu Gln Leu Leu Glu Asn Val
            20   25   30

Cys Leu Leu Leu Ala Ser Arg Thr Arg Asp Val Val Lys Ser Ala Leu
        35   40   45

Gly Phe Ile Lys Val Ala Val Thr Val Met Asp Val Ala His Leu Ala
    50   55   60

Lys His Val Gln Leu Val Met Glu Ala Ile Gly Lys Leu Ser Asp Asp
 65   70   75   80

Met Arg Arg His Phe Arg Met Lys Leu Arg Asn Leu Phe Thr Lys Phe
                85   90   95

Ile Arg Lys Phe Gly Phe Glu Leu Val Lys Arg Leu Leu Pro Glu Glu
                100   105   110

Tyr His Arg Val Leu Val Asn Ile Arg Lys Ala Glu Ala Arg Ala Lys
        115   120   125

Arg His Arg Ala Leu Ser Gln Ala Ala Val Glu Glu Glu Glu Glu Glu
    130   135   140

Glu Glu Glu Glu Glu Pro Ala Gln Gly Lys Gly Asp Ser Ile Glu Glu
145   150   155   160

Ile Leu Ala Asp Ser Glu Asp Glu Glu Asp Asn Glu Glu Glu Glu Arg
            165   170   175

Ser Arg Gly Lys Glu Gln Arg Lys Leu Ala Arg Gln Arg Ser Arg Ala
            180   185   190

Trp Leu Lys Glu Gly Gly Gly Asp Glu Pro Leu Asn Phe Leu Asp Pro
    195   200   205

Lys Val Ala Gln Arg Val Leu Ala Thr Gln Pro Gly Pro Ala Gly Gln
    210   215   220

Glu Glu Gly Pro Gln Leu Gln Gly Glu Arg Arg Trp Pro Ala Asp His
225   230   235   240

Lys Gly Gly Gly Arg Arg Gln Gln Asp Gly Gly Arg Gly Arg Cys Gln
            245   250   255

Arg Arg Arg

<210> 2124
<211> 42
<212> PRT
<213> Homo sapiens

<400> 2124
Met Leu Trp Leu Gly Thr Ser Leu Ile Phe Ser Ser Phe Ser Ala Ser
 1   5   10   15

1612

Phe Asp Gly Val Pro Phe Leu Ser Ser Trp Leu Phe Trp Ser Ser Gly
            20   25   30

Ser Ser Pro Asn Ser Leu Ile Pro Pro Phe
            35   40

<210> 2125
<211> 45
<212> PRT
<213> Homo sapiens

<400> 2125
Met Tyr Pro Pro Val Ala Pro Ser Phe Trp Gly Cys Val Cys Phe Phe
 1   5   10   ·15

Trp Ala Val Pro Leu Val Cys Cys Arg Asp Ser Trp Lys Gly Leu Ser
            20   25   30

Leu Phe Val Gly Ser Gly Gly Leu Gly Leu Val Glu His
            35   40   45

<210> 2126
<211> 54
<212> PRT
<213> Homo sapiens

<400> 2126
Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln
 1   5   10   15

Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro
            20   25   30

Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met
            35   40   45

Arg Val Cys Ala Arg Val
        50

<210> 2127
<211> 136
<212> PRT
<213> Homo sapiens

<400> 2127

1613

Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
1   5   10   15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp
                20   25   30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu
            35   40   45

Gly Val Leu Leu Leu Leu Gly Glu Cys Thr Gly Ser Gly Arg Glu Trp
        50   55   60

Ala Gly Ser Leu Asp Gln Ser Asn Gln Ala Arg Arg Lys Gly Asn Gly
65   70   75   80

Gly His Val Arg Glu Gly Val Glu Ser Arg Val Trp Gln Val Thr Gly
                85   90   95

Ser Cys Pro Tyr Ser Val Tyr Ser Thr Gly Ser Arg Pro His Val Leu
            100   105   110

Arg His Trp Glu Ala Ala Ser Gln Ala Pro Ala Ala Gly Arg Pro Gly
        115   120   125

Gly Ala Ala Val Leu Leu Ser Leu
    130   135

<210> 2128
<211> 74
<212> PRT
<213> Homo sapiens

<400> 2128
Met His Trp Thr Phe Ser Ser Ser Leu Gly Cys Leu Tyr His Phe Ser
1   5   10   15

Leu Ser Phe Ser Gly Leu His Thr Val Leu Lys Ser Ser Pro Ser Ser
                20   25   30

Arg Phe Leu Leu Pro Cys Ser Ser Gln Val Thr Gln Pro Ser Pro Val
            35   40   45

Gly Gln Pro Arg Leu Val Val Gln Leu Pro Pro Val Lys Val Ile Gly
        50   55   60

His Arg Thr Gly Gln Cys Arg Gly Pro Gly
65   70

1614

<210> 2129
<211> 253
<212> PRT
<213> Homo sapiens

<400> 2129

Met	Asp	Asn	Arg	Phe	Ala	Thr	Ala	Phe	Val	Ile	Ala	Cys	Val	Leu	Ser
1				5					10					15	

Leu	Ile	Ser	Thr	Ile	Tyr	Met	Ala	Ala	Ser	Ile	Gly	Thr	Asp	Phe	Trp
			20					25					30		

Tyr	Glu	Tyr	Arg	Ser	Pro	Val	Gln	Glu	Asn	Ser	Ser	Asp	Leu	Asn	Lys
		35					40					45			

Ser	Ile	Trp	Asp	Glu	Phe	Ile	Ser	Asp	Glu	Ala	Asp	Glu	Lys	Thr	Tyr
	50					55					60				

Asn	Asp	Ala	Leu	Phe	Arg	Tyr	Asn	Gly	Thr	Val	Gly	Leu	Trp	Arg	Arg
65					70					75					80

Cys	Ile	Thr	Ile	Pro	Lys	Asn	Met	His	Trp	Tyr	Ser	Pro	Pro	Glu	Arg
				85					90					95	

Thr	Glu	Ser	Phe	Asp	Val	Val	Thr	Lys	Cys	Val	Ser	Phe	Thr	Leu	Thr
			100					105					110		

Glu	Gln	Phe	Met	Glu	Lys	Phe	Val	Asp	Pro	Gly	Asn	His	Asn	Ser	Gly
		115					120					125			

Ile	Asp	Leu	Leu	Arg	Thr	Tyr	Leu	Trp	Arg	Cys	Gln	Phe	Leu	Leu	Pro
	130					135					140				

Phe	Val	Ser	Leu	Gly	Leu	Met	Cys	Phe	Gly	Ala	Leu	Ile	Gly	Leu	Cys
145					150					155					160

Ala	Cys	Ile	Cys	Arg	Ser	Leu	Tyr	Pro	Thr	Ile	Ala	Thr	Gly	Ile	Leu
				165					170					175	

His	Leu	Leu	Ala	Gly	Leu	Cys	Thr	Leu	Gly	Ser	Val	Ser	Cys	Tyr	Val
			180					185					190		

Ala	Gly	Ile	Glu	Leu	Leu	His	Gln	Lys	Leu	Glu	Leu	Pro	Asp	Asn	Val
		195					200					205			

Ser	Gly	Glu	Phe	Gly	Trp	Ser	Phe	Cys	Leu	Ala	Cys	Val	Ser	Ala	Pro
	210					215					220				

Leu	Gln	Phe	Met	Ala	Ser	Ala	Leu	Phe	Ile	Trp	Ala	Ala	His	Thr	Asn
225					230					235					240

Arg	Lys	Glu	Tyr	Thr	Leu	Met	Lys	Ala	Tyr	Arg	Val	Ala

<210> 2130
<211> 253
<212> PRT
<213> Homo sapiens

<400> 2130
Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser
 1   5   10   15

Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
            20   25   30

Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys
        35   40   45

Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr
    50   55   60

Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg
65   70   75   80

Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg
                85   90   95

Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr
            100   105   110

Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
        115   120   125

Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro
    130   135   140

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys
145   150   155   160

Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu
                165   170   175

His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val
            180   185   190

Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val
        195   200   205

Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro
    210   215   220

```
Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn
225                 230                 235                 240

Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala
                245                 250
```

```
<210> 2131
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2131
Met Phe Phe Gln Gly Trp Val Asp Arg Trp Leu Leu Gly Cys Leu Ala
 1               5                  10                  15

Pro Gly Gly Phe Ala Ile His Glu Ala Arg Ala Gly Asn Thr Val Ser
                20                  25                  30

Leu Pro Met Val Asp Pro Cys Glu Cys Gln Glu Ala Ser Ser Ser Val
            35                  40                  45

Leu Glu Met Ile Ser Ala Thr Ile Leu
        50                  55
```

```
<210> 2132
<211> 41
<212> PRT
<213> Homo sapiens

<400> 2132
Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met
 1               5                  10                  15

Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly
                20                  25                  30

Ile Phe Ile Gly Pro Glu Gln Phe Leu
            35                  40
```

```
<210> 2133
<211> 51
<212> PRT
<213> Homo sapiens

<400> 2133
Met Ser Leu Glu Pro Ser Thr Ser Ser Phe Asn Ile Leu Leu Phe Pro
```

```
    1                     5                      10                          15

    Ala Phe Leu Arg Val Phe Gly Trp Ala Leu Gly Trp Met Pro Trp Glu
                20                  25                  30

    Tyr Leu Tyr Leu Ser Ser Lys Val Thr Asn Gly Glu Thr Gly Thr Gln
                35                  40                  45

    Arg Gly Thr
            50
```

<210> 2134
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2134
```
    Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser
     1                   5                  10                  15

    Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser
                20                  25                  30

    Ser Leu Ala Trp Lys His Gly Pro Gly Xaa Leu Trp Trp Pro Arg Arg
                35                  40                  45

    Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly
        50                  55                  60
```

<210> 2135
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2135
Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser
 1   5   10   15

Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser
            20   25   30

Ser Leu Ala Trp Lys His Gly Pro Gly Glu Leu Trp Trp Pro Arg Xaa
            35   40   45

Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly
        50   55   60

<210> 2136
<211> 78
<212> PRT
<213> Homo sapiens

<400> 2136
Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1   5   10   15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
            20   25   30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
            35   40   45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
        50   55   60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65   70   75

<210> 2137
<211> 78
<212> PRT
<213> Homo sapiens

<400> 2137
Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1   5   10   15

1619

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
            20   25   30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
            35   40   45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
      50   55   60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
   65   70   75

<210> 2138
<211> 144
<212> PRT
<213> Homo sapiens

<400> 2138
Met Ser Ala Val Ser Ala Pro Ala Leu Trp Gln Thr Trp Cys Val Pro
   1   5   10   15

Ala Ala Arg Ala Trp Thr Ser Ser Thr Leu Arg His Asp Ala Val Ala
            20   25   30

Arg Pro Asn Pro Ser Thr Ser Leu Thr Pro Gly Leu Leu Thr Ser Ser
            35   40   45

Asp Ser Pro Arg Trp Pro Gly Leu Gln Glu Ala Pro Gly Arg Pro Cys
      50   55   60

Ile Arg Leu Gly Arg Ser Glu Leu Cys Met Tyr Ile Tyr Thr Tyr Ile
   65   70   75   80

Asp Thr Phe Ile Ile Tyr Thr His Ser Leu Tyr Ile Tyr Ile His Cys
            85   90   95

Phe Leu Ala Pro Glu Leu Ile Trp Val Gln Ala His Phe Lys Thr Leu
            100   105   110

Pro Gly Gly Gly Cys Phe Phe Ser Gly Phe Leu Ala Arg Glu Glu Gly
            115   120   125

Glu Gly Thr Gly Trp Val Phe Ser Leu Lys Arg Glu Ser Arg Arg Phe
      130   135   140

1620

<210> 2139
<211> 151
<212> PRT
<213> Homo sapiens

<400> 2139
Met Leu His Trp Val Leu Ser Phe Phe Phe Leu Leu Ser Cys Pro Arg
1   5   10   15

Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro Gly Cys Ser Gln Cys Pro
                20   25   30

Gly Arg Gly Met Trp Pro Gly Asp Pro Gly Pro Gly Ile Gln Gly Pro
            35   40   45

Gly Leu Asp Leu Arg Thr Gly Met Glu Ala Thr Gly Ala Gln Gln Pro
        50   55   60

Thr Leu Ser Ser Pro His Cys Leu Leu Ser Leu Pro Thr Leu Pro Ala
65   70   75   80

Arg Ala Val Gln Leu Arg Trp Asp Leu Ser Ile Ser Arg Ala Gly Gly
                85   90   95

Arg Val Ala Val Leu Gly Leu Cys Leu Glu Pro Gly Gly Ser Leu Leu
            100   105   110

Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp Pro Cys Ala Ala Cys Pro
        115   120   125

Pro Cys Pro Phe Val Pro Met Ser Gly Gly Gly Gly Arg Pro Thr Val
    130   135   140

Pro Glu Ala Gly His Gln Pro
145   150

<210> 2140
<211> 173
<212> PRT
<213> Homo sapiens

<400> 2140
Met Pro Pro Tyr Thr Pro Phe Phe Gly Thr Arg Ala Leu Leu Ser Val
1   5   10   15

Ser Leu Pro Pro Pro Cys Met Leu His Trp Val Leu Ser Phe Phe Phe
                20   25   30

Leu Leu Ser Cys Pro Arg Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro

1621

```
                  35                      40                      45

      Gly Cys Ser Gln Cys Pro Gly Arg Gly Met Trp Pro Gly Asp Pro Gly
          50                  55                  60

      Pro Gly Ile Gln Gly Pro Gly Leu Asp Leu Arg Thr Gly Met Glu Ala
       65                  70                  75                  80

      Thr Gly Ala Gln Gln Pro Thr Leu Ser Ser Pro His Cys Leu Leu Ser
                      85                  90                  95

      Leu Pro Thr Leu Pro Ala Arg Ala Val Gln Leu Arg Trp Asp Leu Ser
                  100                 105                 110

      Ile Ser Arg Ala Gly Gly Arg Val Ala Val Leu Gly Leu Cys Leu Glu
                  115                 120                 125

      Pro Gly Gly Ser Leu Leu Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp
          130                 135                 140

      Pro Cys Ala Ala Cys Pro Pro Cys Pro Phe Val Pro Met Ser Gly Gly
       145                 150                 155                 160

      Gly Gly Arg Pro Thr Val Pro Glu Ala Gly His Gln Pro
                      165                 170


<210> 2141
<211> 82
<212> PRT
<213> Homo sapiens

<400> 2141
Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1               5                   10                  15

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
            20                  25                  30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
            35                  40                  45

Ser Met Val Ser Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
        50                  55                  60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65                  70                  75                  80

Lys Ser


                                  1622
```

```
<210> 2142
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2142
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
 1               5                  10                  15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
            20                  25                  30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
        35                  40                  45

Lys Glu Glu Trp Val
    50


<210> 2143
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2143
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
 1               5                  10                  15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
            20                  25                  30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
        35                  40                  45

Lys Glu Glu Trp Val
    50


<210> 2144
<211> 53
<212> PRT
<213> Homo sapiens

<400> 2144
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val
 1               5                  10                  15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
```

```
                20                      25                      30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly
        35                      40                      45

Lys Glu Glu Trp Val
        50




<210> 2145
<211> 97
<212> PRT
<213> Homo sapiens

<400> 2145
Met Leu Trp Lys Leu Lys Leu Ser Arg Cys Trp Leu Asp Leu Thr Leu
  1               5                      10                      15

Leu Ile Phe Ser Gln Ile Ser His Met Asp Gln Ile Ile Phe Phe Phe
                20                      25                      30

Val Val Tyr Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys Arg
            35                      40                      45

Asp Phe Phe Cys Gly Gly Tyr Phe Leu Phe Cys Ser Lys Ile Ile Arg
        50                      55                      60

Cys Lys Ala Ile Leu Cys Leu Thr Val Ala Leu Ser Lys Gln Leu Cys
 65.                     70                      75                      80

Ser Gly Val Ala Phe Asp Val Leu Glu Phe Asp Tyr Met Gln Ser Cys
                85                      90                      95

Ile



<210> 2146
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2146
Met Met Thr Met Thr Ser Asp Arg Trp Phe Ser Met Ala Trp Ala Ser
 1   5   10   15

Cys Ser Leu Ser Arg Pro Pro Leu Thr Pro Ser Cys Ser Cys Gln Gln
                20   25   30

Pro Ala Thr Val Ala Leu Leu Leu Gln Thr Ile Ser Val Cys Ser Ala
            35   40   45

Gln Gln Ala Asp Pro Leu Ser Pro Pro Arg Ala Cys Arg Pro Xaa Arg
        50   55   60

Gln Phe Pro Val Leu Gln Ser Ala Gly Pro Pro His Ser Pro His Val
 65   70   75   80

Tyr Ala Phe Val Leu Phe Pro Val Ser Ser Arg Trp Gln Gly Gly Asp
                85   90   95

Phe Cys Xaa Ile Cys Cys Cys Phe Pro Gln Cys Leu Gly Arg Cys Leu
            100   105   110

Glu His Thr Arg Cys Ser Ile Asn Pro Xaa
        115   120

<210> 2147
<211> 99
<212> PRT
<213> Homo sapiens

<400> 2147
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1   5   10   15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
                20   25   30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
            35   40   45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
        50   55   60

1625

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65   70   75   80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
               85   90   95

Pro Gly Asn

<210> 2148
<211> 245
<212> PRT
<213> Homo sapiens

<400> 2148
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1   5   10   15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
            20   25   30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
        35   40   45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
    50   55   60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65   70   75   80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
               85   90   95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
           100   105   110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
           115   120   125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
    130   135   140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145   150   155   160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
               165   170   175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
            180   185   190

1626

```
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
        195                 200                 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
        210                 215                 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225                 230                 235                 240

Ile Phe Pro Ser Ala
                245
```


<210> 2149
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2149
```
Met Gly His Leu His Trp Gly Val Ser Gly Asn Phe Phe Phe Pro Arg
 1               5               10                  15

Leu Ser Leu Phe Leu Leu Phe Ala Trp Leu Gln Ile Thr Gln Ala Asn
            20                  25                  30

Glu Pro Arg Leu Pro Gly Lys Tyr Ser Ile Lys Ala Ile Lys Ile Thr
            35                  40                  45

Ile Cys Ile Thr Phe Arg Thr Ser Ala
        50                  55
```


<210> 2150
<211> 152
<212> PRT
<213> Homo sapiens

<400> 2150
```
Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu
 1               5               10                  15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu
            20                  25                  30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly
            35                  40                  45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys
        50                  55                  60
```

```
Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr
 65              70              75              80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala
                85              90              95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His
            100             105             110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala
        115             120             125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln
    130             135             140

Gly Pro Ala Ala Arg Gly Thr Trp
145             150


<210> 2151
<211> 302
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2151
Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu
  1           5               10              15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
                20              25              30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn
            35              40              45

Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
        50              55              60

Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
 65              70              75              80

Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
                85              90              95

Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His
            100             105             110


                              1628
```

```
Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa
        115                 120                 125

Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser
    130                 135                 140

Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser
145                 150                 155                 160

Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp
                165                 170                 175

Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn
        180                 185                 190

Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr
        195                 200                 205

Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln
    210                 215                 220

Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp
225                 230                 235                 240

Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr
                245                 250                 255

Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala
        260                 265                 270

Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly
        275                 280                 285

Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val
    290                 295                 300


<210> 2152
<211> 316
<212> PRT
<213> Homo sapiens

<400> 2152
Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala
  1               5                 10                15

Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln
            20                  25                  30

Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
```

1629

```
              35                      40                      45

Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn
    50                  55                  60

Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala
65   ·               70                  75                  80

Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe
                85                  90                  95      ·

Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val
            100                 105                 110

Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp
        115                 120                 125

Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys
    130                 135                 140

Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr
145                 150                 155                 160

Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val
            165                 170                 175

Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
        180                 185                 190

Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu
        195                 200                 205

Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
    210                 215                 220

Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly ·Gln
225                 230                 235                 240

Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser
            245                 250                 255

Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg
        260                 265                 270

Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln
    275                 280                 285

Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His
    290                 295                 300

Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala
305                 310                 315
```

<210> 2153
<211> 831
<212> PRT
<213> Homo sapiens

<400> 2153
Met Lys Val His Met His Thr Lys Phe Cys Leu Ile Cys Leu Leu Thr
1   5   10   15

Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly
            20   25   30

Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro
        35   40   45

Ser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile
    50   55   60

Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe
65   70   75   80

Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val
            85   90   95

Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu
            100   105   110

Asp Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His
        115   120   125

Gln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser
    130   135   140

Val Ser Thr Lys Arg Asn His Lys Cys Asp Pro Glu Lys Glu Thr Val
145   150   155   160

Glu Val Ser Val Lys Ser Asp Asp Lys His Met His Asp His Asn His
            165   170   175

Arg Leu Arg His His His Arg Leu His His His Leu Asp His Asn Asn
        180   185   190

Thr His His Phe His Asn Asp Ser Ile Thr Pro Ser Glu Arg Gly Glu
        195   200   205

Pro Ser Asn Glu Pro Ser Thr Glu Thr Asn Lys Thr Gln Glu Gln Ser
    210   215   220

Asp Val Lys Leu Pro Lys Gly Lys Arg Lys Lys Lys Gly Arg Lys Ser

1631

Asn Glu Asn Ser Glu Val Ile Thr Pro Gly Phe Pro Pro Asn His Asp
            245   250   255

Gln Gly Glu Gln Tyr Glu His Asn Arg Val His Lys Pro Asp Arg Val
            260   265   270

His Asn Pro Gly His Ser His Val His Leu Pro Glu Arg Asn Gly His
            275   280   285

Asp Pro Gly Arg Gly His Gln Asp Leu Asp Pro Asp Asn Glu Gly Glu
    290   295   300

Leu Arg His Thr Arg Lys Arg Glu Ala Pro His Val Lys Asn Asn Ala
305   310   315   320

Ile Ile Ser Leu Arg Lys Asp Leu Asn Glu Asp Asp His His His Glu
            325   330   335

Cys Leu Asn Val Thr Gln Leu Leu Lys Tyr Tyr Gly His Gly Ala Asn
            340   345   350

Ser Pro Ile Ser Thr Asp Leu Phe Thr Tyr Leu Cys Pro Ala Leu Leu
            355   360   365

Tyr Gln Ile Asp Ser Arg Leu Cys Ile Glu His Phe Asp Lys Leu Leu
    370   375   380

Val Glu Asp Ile Asn Lys Asp Lys Asn Leu Val Pro Glu Asp Glu Ala
385   390   395   400

Asn Ile Gly Ala Ser Ala Trp Ile Cys Gly Ile Ile Ser Ile Thr Val
            405   410   415

Ile Ser Leu Leu Ser Leu Leu Gly Val Ile Leu Val Pro Ile Ile Asn
            420   425   430

Gln Gly Cys Phe Lys Phe Leu Leu Thr Phe Leu Val Ala Leu Ala Val
            435   440   445

Gly Thr Met Ser Gly Asp Ala Leu Leu His Leu Leu Pro His Ser Gln
    450   455   460

Gly Gly His Asp His Ser His Gln His Ala His Gly His Gly His Ser
465   470   475   480

His Gly His Glu Ser Asn Lys Phe Leu Glu Glu Tyr Asp Ala Val Leu
            485   490   495

Lys Gly Leu Val Ala Leu Gly Gly Ile Tyr Leu Leu Phe Ile Ile Glu
            500   505   510

```
His Cys Ile Arg Met Phe Lys His Tyr Lys Gln Gln Arg Gly Lys Gln
        515             520             525

Lys Trp Phe Met Lys Gln Asn Thr Glu Glu Ser Thr Ile Gly Arg Lys
        530             535             540

Leu Ser Asp His Lys Leu Asn Asn Thr Pro Asp Ser Asp Trp Leu Gln
545             550             555             560

Leu Lys Pro Leu Ala Gly Thr Asp Asp Ser Val Val Ser Glu Asp Arg
                565             570             575

Leu Asn Glu Thr Glu Leu Thr Asp Leu Glu Gly Gln Gln Glu Ser Pro
            580             585             590

Pro Lys Asn Tyr Leu Cys Ile Glu Glu Glu Lys Ile Ile Asp His Ser
        595             600             605

His Ser Asp Gly Leu His Thr Ile His Glu His Asp Leu His Ala Ala
        610             615             620

Ala His Asn His His Gly Glu Asn Lys Thr Val Leu Arg Lys His Asn
625             630             635             640

His Gln Trp His His Lys His Ser His His Ser His Gly Pro Cys His
            645             650             655

Ser Gly Ser Asp Leu Lys Glu Thr Gly Ile Ala Asn Ile Ala Trp Met
            660             665             670

Val Ile Met Gly Asp Gly Ile His Asn Phe Ser Asp Gly Leu Ala Ile
        675             680             685

Gly Ala Ala Phe Ser Ala Gly Leu Thr Gly Gly Ile Ser Thr Ser Ile
    690             695             700

Ala Val Phe Cys His Glu Leu Pro His Glu Leu Gly Asp Phe Ala Val
705             710             715             720

Leu Leu Lys Ala Gly Met Thr Val Lys Gln Ala Ile Val Tyr Asn Leu
                725             730             735

Leu Ser Ala Met Met Ala Tyr Ile Gly Met Leu Ile Gly Thr Ala Val
            740             745             750

Gly Gln Tyr Ala Asn Asn Ile Thr Leu Trp Ile Phe Ala Val Thr Ala
        755             760             765

Gly Met Phe Leu Tyr Val Ala Leu Val Asp Met Leu Pro Glu Met Leu
    770             775             780
```

His Gly Asp Gly Asp Asn Glu Glu His Gly Phe Cys Pro Val Gly Gln
785   790   795   800

Phe Ile Leu Gln Asn Leu Gly Leu Leu Phe Gly Phe Ala Ile Met Leu
                805   810   815

Val Ile Ala Leu Tyr Glu Asp Lys Ile Val Phe Asp Ile Gln Phe
            820   825   830

<210> 2154
<211> 480
<212> PRT
<213> Homo sapiens

<400> 2154
Met Leu Phe Arg Asn Arg Phe Leu Leu Leu Leu Ala Leu Ala Ala Leu
  1   5   10   15

Leu Ala Phe Val Ser Leu Ser Leu Gln Phe Phe His Leu Ile Pro Val
            20   25   30

Ser Thr Pro Lys Asn Gly Met Ser Ser Lys Ser Arg Lys Arg Ile Met
            35   40   45

Pro Asp Pro Val Thr Glu Pro Pro Val Thr Asp Pro Val Tyr Glu Ala
        50   55   60

Leu Leu Tyr Cys Asn Ile Pro Ser Val Ala Glu Arg Ser Met Glu Gly
 65   70   75   80

His Ala Pro His His Phe Lys Leu Val Ser Val His Val Phe Ile Arg
                85   90   95

His Gly Asp Arg Tyr Pro Leu Tyr Val Ile Pro Lys Thr Lys Arg Pro
            100   105   110

Glu Ile Asp Cys Thr Leu Val Ala Asn Arg Lys Pro Tyr His Pro Lys
            115   120   125

Leu Glu Ala Phe Ile Ser His Met Ser Lys Gly Ser Gly Ala Ser Phe
        130   135   140

Glu Ser Pro Leu Asn Ser Leu Pro Leu Tyr Pro Asn His Pro Leu Cys
145   150   155   160

Glu Met Gly Glu Leu Thr Gln Thr Gly Val Val Gln His Leu Gln Asn
            165   170   175

Gly Gln Leu Leu Arg Asp Ile Tyr Leu Lys Lys His Lys Leu Leu Pro
            180   185   190

1634

```
Asn Asp Trp Ser Ala Asp Gln Leu Tyr Leu Glu Thr Thr Gly Lys Ser
        195                 200                 205

Arg Thr Leu Gln Ser Gly Leu Ala Leu Leu Tyr Gly Phe Leu Pro Asp
        210                 215                 220

Phe Asp Trp Lys Lys Ile Tyr Phe Arg His Gln Pro Ser Ala Leu Phe
225                 230                 235                 240

Cys Ser Gly Ser Cys Tyr Cys Pro Val Arg Asn Gln Tyr Leu Glu Lys
                245                 250                 255

Glu Gln Arg Arg Gln Tyr Leu Leu Arg Leu Lys Asn Ser Gln Leu Glu
            260                 265                 270

Lys Thr Tyr Gly Glu Met Ala Lys Ile Val Asp Val Pro Thr Lys Gln
        275                 280                 285

Leu Arg Ala Ala Asn Pro Ile Asp Ser Met Leu Cys His Phe Cys His
        290                 295                 300

Asn Val Ser Phe Pro Cys Thr Arg Asn Gly Cys Val Asp Met Glu His
305                 310                 315                 320

Phe Lys Val Ile Lys Thr His Gln Ile Glu Asp Glu Arg Glu Arg Arg
                325                 330                 335

Glu Lys Lys Leu Tyr Phe Gly Tyr Ser Leu Leu Gly Ala His Pro Ile
            340                 345                 350

Leu Asn Gln Thr Ile Gly Arg Met Gln Arg Ala Thr Glu Gly Arg Lys
        355                 360                 365

Glu Glu Leu Phe Ala Leu Tyr Ser Ala His Asp Val Thr Leu Ser Pro
    370                 375                 380

Val Leu Ser Ala Leu Gly Leu Ser Glu Ala Arg Phe Pro Arg Phe Ala
385                 390                 395                 400

Ala Arg Leu Ile Phe Glu Leu Trp Gln Asp Arg Glu Lys Pro Ser Glu
            405                 410                 415

His Ser Val Arg Ile Leu Tyr Asn Gly Val Asp Val Thr Phe His Thr
            420                 425                 430

Ser Phe Cys Gln Asp His His Lys Arg Ser Pro Lys Pro Met Cys Pro
        435                 440                 445

Leu Glu Asn Leu Val Arg Phe Val Lys Arg Asp Met Phe Val Ala Leu
    450                 455                 460
```

1635

```
Gly Gly Ser Gly Thr Asn Tyr Tyr Asp Ala Cys His Arg Glu Gly Phe
465                 470             475                 480
```

```
<210> 2155
<211> 151
<212> PRT
<213> Homo sapiens

<400> 2155
Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp
  1               5               10                  15

Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys
              20              25                  30

Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys
          35              40                  45

Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe
      50              55                  60

Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro
 65              70                  75                  80

Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu
              85                  90                  95

Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro
              100             105                 110

Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala
          115             120             125

Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu
      130             135                 140

Cys Pro Pro Ser Gln Ala Gln
145                 150
```

```
<210> 2156
<211> 89
<212> PRT
<213> Homo sapiens

<400> 2156
```

Met Tyr Met Gln Asp Tyr Trp Arg Thr Trp Leu Lys Gly Leu Arg Gly
1   5   10   15

Phe Phe Phe Val Gly Val Leu Phe Ser Ala Val Ser Ile Ala Ala Phe
                20   25   30

Cys Thr Phe Leu Val Leu Ala Ile Thr Arg His Gln Ser Leu Thr Asp
            35   40   45

Pro Thr Ser Tyr Tyr Leu Ser Ser Val Trp Ser Phe Ile Ser Phe Lys
        50   55   60

Trp Ala Phe Leu Leu Ser Leu Tyr Ala His Arg Tyr Arg Ala Asp Phe
65   70   75   80

Ala Asp Ile Ser Ile Leu Ser Asp Phe
                85

<210> 2157
<211> 56
<212> PRT
<213> Homo sapiens

<400> 2157
Met Arg Gly His Ile Thr Thr Leu Leu Thr Thr Ser Phe Leu Val Phe
1   5   10   15

Gly Leu His Ile Ile Phe Phe Leu Asn Ile Ser Cys Phe Asn Phe Arg
                20   25   30

Val Phe Ile Leu Phe Glu Thr Arg Pro Glu Asp Ser Arg Leu Tyr Arg
            35   40   45

Glu Arg Pro Val Leu Pro Arg Tyr
        50   55

<210> 2158
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2158
Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
1   5   10   15

Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
                20   25   30

1637

Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
        35   40   45

Thr Ser
    50

<210> 2159
<211> 50
<212> PRT
<213> Homo sapiens

<400> 2159
Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
  1   5   10   15

Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
                20   25   30

Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
        35   40   45

Thr Ser
    50

<210> 2160
<211> 81
<212> PRT
<213> Homo sapiens

<400> 2160
Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys
  1   5   10   15

Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp
                20   25   30

Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn
            35   40   45

Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys
        50   55   60

Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln
 65   70   75   80

Val

1638

<210> 2161
<211> 73
<212> PRT
<213> Homo sapiens

<400> 2161
Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr Phe Asn Cys Ser Val
1   5   10   15

Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val Ser Val Phe Ile Leu
            20   25   30

Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe Leu His Ser Glu Gln
        35   40   45

Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu Lys Ser Ser Thr Ser
    50   55   60

Phe Ala Asn Ile Gln Glu Asn Ser Asn
65   70

<210> 2162
<211> 193
<212> PRT
<213> Homo sapiens

<400> 2162
Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro
1   5   10   15

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala
            20   25   30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser
        35   40   45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Leu Gln
    50   55   60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu
65   70   75   80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala
            85   90   95

Glu Leu Thr Gly Cys Leu Val Arg Ser Ala Arg Pro Val Arg Leu Cys
            100   105   110

1639

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn
        115   120   125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg
        130   135   140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu
145   150   155   160

Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr
                165   170   175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Lys Ser
                180   185   190

Ile

<210> 2163
<211> 134
<212> PRT
<213> Homo sapiens

<400> 2163
Met Ala Pro Glu Val Met Glu Gln Val Arg Gly Tyr Asp Phe Lys Ala
  1   5   10   15

Asp Ile Trp Ser Phe Gly Ile Thr Ala Ile Glu Leu Ala Thr Gly Ala
                20   25   30

Ala Pro Tyr His Lys Tyr Pro Pro Met Lys Val Leu Met Leu Thr Leu
            35   40   45

Gln Asn Asp Pro Pro Ser Leu Glu Thr Gly Val Gln Asp Lys Glu Met
        50   55   60

Leu Lys Lys Tyr Gly Lys Ser Phe Arg Lys Met Ile Ser Leu Cys Leu
 65   70   75   80

Gln Lys Asp Pro Glu Lys Arg Pro Thr Ala Ala Glu Leu Leu Arg His
                85   90   95

Lys Phe Phe Gln Lys Ala Lys Asn Lys Glu Phe Leu Gln Glu Lys Thr
                100   105   110

Leu Gln Arg Ala Pro Thr Ile Ser Glu Arg Ala Lys Lys Val Arg Arg
        115   120   125

Val Pro Gly Ser Cys Pro
        130

<210> 2164
<211> 334
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2164
Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro
 1   5   10   15

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala
                20   25   30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser
            35   40   45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Leu Gln
        50   55   60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu
 65   70   75   80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala
                85   90   95

Glu Leu Thr Gly Cys Leu Val Arg Xaa Ala Arg Pro Val Arg Leu Cys
            100   105   110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn
            115   120   125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg
    130   135   140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu
145   150   155   160

Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr
                165   170   175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Asn Leu
            180   185   190

Phe Asn His Thr Leu Thr Cys Phe Glu His Asn Leu Gln Gly Asn Ala
            195   200   205

                              1641

```
His Ser Leu Leu Gln Thr Lys Asn Tyr Ser Glu Val Cys Lys Asn Cys
    210                 215                 220

Arg Glu Ala Tyr Lys Thr Leu Ser Ser Leu Tyr Ser Glu Met Gln Lys
225                 230                 235                 240

Met Asn Glu Leu Glu Asn Lys Ala Glu Pro Gly Thr His Leu Cys Ile
                245                 250                 255

Asp Val Glu Asp Ala Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr
                260                 265                 270

Phe Asn Cys Ser Val Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val
                275                 280                 285

Ser Val Phe Ile Leu Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe
    290                 295                 300

Leu His Ser Glu Gln Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu
305                 310                 315                 320

Lys Ser Ser Thr Ser Phe Ala Asn Ile Gln Glu Asn Ser Asn
                325                 330


<210> 2165
<211> 49
<212> PRT
<213> Homo sapiens

<400> 2165
Met Val Leu Val Phe Ala Tyr Leu Cys Val Leu Leu Ile Val Cys Trp
  1           5                 10                  15

Val Thr Ser Lys Thr Ser Leu Ala Leu Lys Tyr Thr Val Tyr Lys Asn
                20                  25                  30

Phe Lys Arg Leu Ile Trp Asn Lys Ser Ile Leu Ile Ile Thr Leu Thr
            35                  40                  45

Pro


<210> 2166
<211> 75
<212> PRT
<213> Homo sapiens
```

<400> 2166
Met Ser Leu Ser Ile Leu Val Ala Leu Ser Leu Gln Ile Leu Phe Leu
 1   5   10   15

Phe Thr Ile Leu Lys Cys Met Leu Ala Lys Trp Val Asp Phe Gln Ile
            20   25   30

Lys Cys Ser Phe His Lys Ser Phe Val Met Val Phe Trp Ser Glu Met
        35   40   45

His Phe His Phe Ser Phe Leu Phe Leu Leu Ser Ile Leu Ser Phe Phe
    50   55   60

Pro Asn Lys Ile Tyr Pro Gly Asp Tyr Ile Cys
65   70   75

<210> 2167
<211> 86
<212> PRT
<213> Homo sapiens

<400> 2167
Met Leu Trp Ala Leu Asp Ser Leu Leu Phe Phe Ser His Ala Gln Leu
 1   5   10   15

Val Pro Leu Gly Gly Gly Glu Glu Trp Gly Ser Pro Gly Leu Gly Leu
            20   25   30

His Ser Ile Ile Pro Ser Gln Ala Ser Gln Gly Val Ser Ala Pro Ala
        35   40   45

Gln Asp Leu Ala Gly Arg Ala Pro Tyr Arg Glu Ser Leu Gly Arg Leu
    50   55   60

Ser Arg Leu Met Ala Gly Pro Ala Arg Gly Val Leu Arg Pro Ala Leu
65   70   75   80

Arg Thr Cys Pro Leu Phe
                85

<210> 2168
<211> 152
<212> PRT
<213> Homo sapiens

<400> 2168
Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1   5   10   15

1643

```
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
          20                  25                  30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Asn Arg Ala Trp Gly Ala
          35                  40                  45

Arg Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe
      50                  55                  60

Pro Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly
65                  70                  75                      80

Gln Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr
                  85                  90                  95

Glu Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser
              100                 105                 110

Leu Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg
          115                 120                 125

Leu Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp
      130                 135                 140

Gln Asp His Ile Tyr His Pro Gln
145                 150


<210> 2169
<211> 142
<212> PRT
<213> Homo sapiens

<400> 2169
Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
  1               5                  10                  15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
          20                  25                  30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
          35                  40                  45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
      50                  55                  60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
65                  70                  75                      80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
```

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Glu Glu Asp Gln
            100   105   110

Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
            115   120   125

Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln
        130   135   140

<210> 2170
<211> 453
<212> PRT
<213> Homo sapiens

<400> 2170
Met Lys Leu Leu Val Ile Leu Ile Phe Ser Gly Leu Ile Thr Cys Cys
    1   5   10   15

Gly Gly Asn Ser Ser His Ser Leu Pro Ser Lys Leu Leu Leu Val Ser
            20   25   30

Phe Asp Gly Phe Arg Ala Asp Tyr Leu Gln Asn Tyr Glu Phe Pro His
            35   40   45

Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn
        50   55   60

Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly
65   70   75   80

Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Val
                85   90   95

Ile Thr Lys Lys His Phe Ser Asp Phe Asp Asp Lys Asp Pro Phe Trp
            100   105   110

Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn
            115   120   125

Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His
        130   135   140

Asn Thr Thr Pro Ser Tyr Phe Met Asn Tyr Ser Ser Ser Val Ser Phe
145   150   155   160

Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Met Asn Ser Asn Pro
                165   170   175

Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly
        180   185   190

His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Tyr Arg Val Leu Lys
        195   200   205

Glu Val Asp Asp Leu Ile Gly Glu Leu Val His Lys Leu Lys Val Leu
        210   215   220

Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met
225   230   235   240

Thr Gln Cys Ser Lys Asp Lys Leu Ile Asn Leu Asp Leu Cys Ile Asp
                245   250   255

Arg Ser Ser Tyr Thr Leu Val Asp Leu Thr Pro Val Ala Ala Val Leu
                260   265   270

Pro Lys Ile Asn Thr Thr Glu Val Tyr Asn Lys Leu Lys Val Cys Asn
        275   280   285

Pro His Met Asn Val Tyr Leu Lys Glu Asp Ile Pro Ala Arg Phe His
        290   295   300

Tyr Gln His Asn Asp Arg Ile Gln Pro Ile Ile Leu Val Ala Asp Glu
305   310   315   320

Gly Trp Thr Ile Val Leu Asn Lys Ser Leu Pro Lys Leu Gly Asp His
                325   330   335

Gly Tyr Asp Asn Ser Leu Ser Ser Met His Pro Phe Leu Ala Ala His
                340   345   350

Gly Pro Ala Phe His Lys Gly Tyr Lys His Ser Thr Ile Asn Ser Val
        355   360   365

Asp Ile Tyr Pro Met Met Cys His Ile Leu Gly Leu Lys Pro His Pro
        370   375   380

Asn Asn Gly Thr Phe Gly His Thr Lys Cys Leu Leu Val Asp Gln Trp
385   390   395   400

Cys Ile Asn Leu Pro Glu Ala Ile Gly Ile Val Ile Gly Ala Leu Leu
                405   410   415

Val Leu Thr Thr Leu Thr Cys Leu Ile Ile Ile Met Gln Asn Arg Leu
                420   425   430

Ser Val Pro Arg Pro Phe Ser Arg Leu Gln Leu Gln Glu Asp Asp Asp
                435   440   445

Asp Pro Leu Ile Glu

1646

<210> 2171
<211> 287
<212> PRT
<213> Homo sapiens

<400> 2171

```
Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1               5                  10                  15

Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
            20                  25                  30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
            35                  40                  45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
        50                  55                  60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
65                  70                  75                  80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
                85                  90                  95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
            100                 105                 110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
            115                 120                 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
            130                 135                 140

Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
145                 150                 155                 160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
            165                 170                 175

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
            180                 185                 190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
            195                 200                 205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
            210                 215                 220
```

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
225   230   235   240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
                245   250   255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
            260   265   270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala
            275   280   285

<210> 2172
<211> 613
<212> PRT
<213> Homo sapiens

<400> 2172
Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
  1   5   10   15

Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
            20   25   30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
            35   40   45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
      50   55   60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65   70   75   80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
            85   90   95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
            100   105   110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
            115   120   125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
            130   135   140

Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
145   150   155   160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
                165   170   175

1648

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
              180   185   190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
          195   200   205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
    210   215   220

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
225   230   235   240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
              245   250   255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
              260   265   270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
          275   280   285

Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
    290   295   300

Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
305   310   315   320

Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
              325   330   335

Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
              340   345   350

Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
          355   360   365

Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val
    370   375   380

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385   390   395   400

Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
              405   410   415

Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
              420   425   430

His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
              435   440   445

1649

```
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
    450             455             460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465             470             475                     480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
                485             490                 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro
            500             505             510

Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
            515             520             525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
    530             535             540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545             550             555                     560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
            565             570             575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
            580             585             590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
        595             600             605

Arg Leu Arg Lys Arg
    610


<210> 2173
<211> 122
<212> PRT
<213> Homo sapiens

<400> 2173
Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val
1               5               10                  15

Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly
            20              25              30

Glu Pro Ala Gly Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly
            35              40              45

Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile
    50              55              60
```

1650

```
Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly
 65                  70                  75                      80

Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His
                 85                  90                  95

Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro
             100                 105                 110

Pro Gly Cys Asp Cys Cys Lys Met Gly Val
             115                 120
```

```
<210> 2174
<211> 613
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (507)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174
Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
  1               5                  10                  15

Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
                 20                  25                  30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
             35                  40                  45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
         50                  55                  60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65                  70                  75                      80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
                 85                  90                  95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
             100                 105                 110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
             115                 120                 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
             130                 135                 140
```

1651

```
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
145                 150                 155                 160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
                165                 170                 175

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
                180                 185                 190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
            195                 200                 205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
        210                 215                 220

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
225                 230                 235                 240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
                245                 250                 255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
                260                 265                 270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
            275                 280                 285

Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
    290                 295                 300

Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
305                 310                 315                 320

Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
                325                 330                 335

Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
                340                 345                 350

Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
        355                 360                 365

Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val
    370                 375                 380

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385                 390                 395                 400

Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
                405                 410                 415
```

1652

```
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
        420                 425                 430

His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
        435                 440                 445

Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
    450                 455                 460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465                 470                 475                 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
                485                 490                 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro
                500                 505                 510

Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
        515                 520                 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
    530                 535                 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545                 550                 555                 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
                565                 570                 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
        580                 585                 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
        595                 600                 605

Arg Leu Arg Lys Arg
    610


<210> 2175
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2175
Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg
  1               5                  10                  15

Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu
            20                  25                  30


                              1653
```

```
Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu
        35                40                45

Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val
    50                55                60


<210> 2176
<211> 396
<212> PRT
<213> Homo sapiens

<400> 2176
Met Trp Trp Leu Leu Leu Trp Gly Val Leu Gln Ala Cys Pro Thr Arg
 1             5                10                15

Gly Ser Val Leu Leu Ala Gln Glu Leu Pro Gln Gln Leu Thr Ser Pro
            20                25                30

Gly Tyr Pro Glu Pro Tyr Gly Lys Gly Gln Glu Ser Ser Thr Asp Ile
        35                40                45

Lys Ala Pro Glu Gly Phe Ala Val Arg Leu Val Phe Gln Asp Phe Asp
    50                55                60

Leu Glu Pro Ser Gln Asp Cys Ala Gly Asp Ser Val Thr Ile Ser Phe
65                70                75                80

Val Gly Ser Asp Pro Ser Gln Phe Cys Gly Gln Gln Gly Ser Pro Leu
                85                90                95

Gly Arg Pro Pro Gly Gln Arg Glu Phe Val Ser Ser Gly Arg Ser Leu
            100                105                110

Arg Leu Thr Phe Arg Thr Gln Pro Ser Ser Glu Asn Lys Thr Ala His
            115                120                125

Leu His Lys Gly Phe Leu Ala Leu Tyr Gln Thr Val Ala Val Asn Tyr
    130                135                140

Ser Gln Pro Ile Ser Glu Ala Ser Arg Gly Ser Glu Ala Ile Asn Ala
145                150                155                160

Pro Gly Asp Asn Pro Ala Lys Val Gln Asn His Cys Gln Glu Pro Tyr
                165                170                175

Tyr Gln Ala Ala Ala Ala Gly Ala Leu Thr Cys Ala Thr Pro Gly Thr
            180                185                190

Trp Lys Asp Arg Gln Asp Gly Glu Glu Val Leu Gln Cys Met Pro Val
```

```
              195                    200                    205

Cys Gly Arg Pro Val Thr Pro Ile Ala Gln Asn Gln Thr Thr Leu Gly
    210                215                220

Ser Ser Arg Ala Lys Leu Gly Asn Phe Pro Trp Gln Ala Phe Thr Ser
225                  230                235                240

Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp Ile Leu
                245                250                255

Thr Ala Ala His Thr Ile Tyr Pro Lys Asp Ser Val Ser Leu Arg Lys
            260                265                270

Asn Gln Ser Val Asn Val Phe Leu Gly His Thr Ala Ile Asp Glu Met
            275                280                285

Leu Lys Leu Gly Asn His Pro Val His Arg Val Val Val His Pro Asp
    290                295                300

Tyr Arg Gln Asn Glu Ser His Asn Phe Ser Gly Asp Ile Ala Leu Leu
305                310                315                320

Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys
            325                330                335

Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val
            340                345                350

Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr
            355                360                365

Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln
    370                375                380

Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys
385                390                395


<210> 2177
<211> 172
<212> PRT
<213> Homo sapiens

<400> 2177
Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser
  1              5                10                15

Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln
            20                25                30
```

```
Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro
        35              40              45

Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro
    50              55              60

Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro
65              70              75              80

Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser
            85              90              95

Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly
        100             105             110

Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr
    115             120             125

Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser
    130             135             140

Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe
145             150             155             160

Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln
            165             170


<210> 2178
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2178
Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu
  1           5               10              15

Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile
            20              25              30

Glu Leu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu
        35              40              45

Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu Leu His Arg Arg
    50              55              60
```

```
Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys
65               70               75               80

Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile
                85               90               95

Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr
            100             105             110

Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser
            115             120             125

Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser
        130             135             140
```

<210> 2179
<211> 868
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (550)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2179
```
Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp
 1               5               10              15

Leu Ala Lys Pro Leu Val Lys Phe Ile Gln Gln Thr Tyr Pro Ser Gly
            20              25              30

Gly Glu Glu Gln Ala Gln Tyr Cys Arg Ala Ala Glu Glu Leu Ser Lys
        35              40              45

Leu Arg Arg Ala Ala Val Gly Arg Pro Leu Asp Lys His Glu Gly Ala
    50              55              60

Leu Glu Thr Leu Leu Arg Tyr Tyr Asp Gln Ile Cys Ser Ile Glu Pro
65              70              75              80
```

```
Lys Phe Pro Phe Ser Glu Asn Gln Ile Cys Leu Thr Phe Thr Trp Lys
                85                  90                  95

Asp Ala Phe Asp Lys Gly Ser Leu Phe Gly Gly Ser Val Lys Leu Ala
            100             105             110

Leu Ala Ser Leu Gly Tyr Glu Lys Ser Cys Val Leu Phe Asn Cys Ala
        115             120             125

Ala Leu Ala Ser Gln Ile Ala Ala Glu Gln Asn Leu Asp Asn Asp Glu
    130             135             140

Gly Leu Lys Ile Ala Ala Lys His Tyr Gln Phe Ala Ser Gly Ala Phe
145             150             155             160

Leu His Ile Lys Glu Thr Val Leu Ser Ala Leu Ser Arg Glu Pro Thr
            165             170             175

Val Asp Ile Ser Pro Asp Thr Val Gly Thr Leu Ser Leu Ile Met Leu
            180             185             190

Ala Xaa Ala Gln Glu Val Phe Phe Leu Lys Ala Thr Arg Asp Lys Met
    195             200             205

Lys Asp Ala Ile Ile Ala Lys Leu Ala Asn Gln Ala Ala Asp Tyr Phe
    210             215             220

Gly Asp Ala Phe Lys Gln Cys Gln Tyr Lys Asp Thr Leu Pro Lys Glu
225             230             235             240

Val Phe Pro Val Leu Ala Ala Lys His Cys Ile Met Gln Ala Asn Ala
            245             250             255

Glu Tyr His Gln Ser Ile Leu Ala Lys Gln Gln Lys Lys Phe Gly Glu
            260             265             270

Glu Ile Ala Arg Leu Gln His Ala Ala Glu Leu Ile Lys Thr Val Ala
        275             280             285

Ser Arg Tyr Asp Glu Tyr Val Asn Val Lys Asp Phe Ser Asp Lys Ile
    290             295             300

Asn Arg Ala Leu Xaa Ala Ala Lys Lys Asp Asn Asp Phe Ile Tyr His
305             310             315             320

Asp Arg Val Pro Asp Leu Lys Asp Leu Asp Pro Ile Gly Lys Ala Thr
            325             330             335

Leu Val Lys Ser Thr Pro Val Asn Val Pro Ile Ser Gln Lys Phe Thr
            340             345             350
```

1658

```
Asp Leu Phe Glu Lys Met Val Pro Val Ser Val Gln Gln Ser Leu Ala
    355             360             365

Ala Tyr Asn Gln Arg Lys Ala Asp Leu Val Asn Arg Ser Ile Ala Gln
    370             375             380

Met Arg Glu Ala Thr Thr Leu Ala Asn Gly Val Leu Ala Ser Leu Asn
385             390             395             400

Leu Pro Ala Ala Ile Glu Asp Val Ser Gly Asp Thr Val Pro Gln Ser
            405             410             415

Ile Leu Thr Lys Ser Arg Ser Val Ile Glu Gln Gly Gly Ile Gln Thr
            420             425             430

Val Asp Gln Leu Ile Lys Glu Leu Pro Glu Leu Leu Gln Arg Asn Arg
    435             440             445

Glu Ile Leu Asp Glu Ser Leu Arg Leu Leu Asp Glu Glu Glu Ala Thr
    450             455             460

Asp Asn Asp Leu Arg Ala Lys Phe Lys Glu Arg Trp Gln Arg Thr Pro
465             470             475             480

Ser Asn Glu Leu Tyr Lys Pro Leu Arg Ala Glu Gly Thr Asn Phe Arg
            485             490             495

Thr Val Leu Asp Lys Ala Val Gln Ala Asp Gly Gln Val Lys Glu Cys
            500             505             510

Tyr Gln Ser His Arg Asp Thr Ile Val Leu Leu Cys Lys Pro Glu Pro
            515             520             525

Glu Leu Asn Ala Ala Ile Pro Ser Ala Asn Pro Ala Lys Thr Met Gln
    530             535             540

Gly Ser Glu Val Val Xaa Val Leu Lys Ser Leu Leu Ser Asn Leu Asp
545             550             555             560

Glu Val Lys Lys Glu Arg Glu Gly Leu Glu Asn Asp Leu Lys Ser Val
            565             570             575

Asn Phe Asp Met Thr Ser Lys Phe Leu Thr Ala Leu Ala Gln Asp Gly
            580             585             590

Val Ile Asn Glu Glu Ala Leu Ser Val Thr Glu Leu Asp Arg Val Tyr
            595             600             605

Gly Gly Leu Thr Thr Lys Val Gln Glu Ser Leu Lys Lys Gln Glu Gly
    610             615             620

Leu Leu Lys Asn Ile Gln Val Ser His Gln Glu Phe Ser Lys Met Lys
```

Gln Ser Asn Asn Glu Ala Asn Leu Arg Glu Glu Val Leu Lys Asn Leu
            645   650   655

Ala Thr Ala Tyr Asp Asn Phe Val Glu Leu Val Ala Asn Leu Lys Glu
            660   665   670

Gly Thr Lys Phe Tyr Asn Glu Leu Thr Glu Ile Leu Val Arg Phe Gln
        675   680   685

Asn Lys Cys Ser Asp Ile Val Phe Ala Arg Lys Thr Glu Arg Asp Glu
        690   695   700

Leu Leu Lys Asp Leu Gln Gln Ser Ile Ala Arg Glu Pro Ser Ala Pro
705   710   715   720

Ser Ile Pro Thr Pro Ala Tyr Gln Ser Leu Pro Ala Gly Gly His Ala
            725   730   735

Pro Thr Pro Pro Thr Pro Ala Pro Arg Thr Met Pro Pro Thr Lys Pro
            740   745   750

Gln Pro Pro Ala Arg Pro Pro Pro Pro Val Leu Pro Ala Asn Arg Ala
        755   760   765

Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro
    770   775   780

Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly
785   790   795   800

Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro
            805   810   815

Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro
            820   825   830

Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly
        835   840   845

Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr
    850   855   860

Tyr Pro Gln Gln
865

<213> Homo sapiens

<400> 2180
```
Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Leu Gly Leu
 1               5                  10                  15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu
                20                  25                  30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Pro Gly Ala Gly Trp Gln Glu
            35                  40                  45

Val Ala Ala Val Thr Ser Lys Asn Tyr Asn Tyr Asn Gln His Ala Tyr
        50                  55                  60

Pro Thr Ala Tyr Gly Gly Lys Tyr Ser Val Lys Thr Pro Ala Lys Gly
65                  70                  75                  80

Gly Val Ser Pro Ser Ser Ser Ala Ser Arg Val Gln Pro Gly Leu Leu
                85                  90                  95

Gln Trp Val Lys Phe Trp
               100
```

<210> 2181
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2181
```
Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
 1               5                  10                  15

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
                20                  25                  30

Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
            35                  40                  45

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
        50                  55                  60

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
65                  70                  75                  80
```

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
                85   90   95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
                100   105   110

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
            115   120   125

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
        130   135   140

<210> 2182
<211> 156
<212> PRT
<213> Homo sapiens

<400> 2182
Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp Phe Val Phe
 1   5   10   15

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
                20   25   30

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
            35   40   45

Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
    50   55   60

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
 65   70   75   80

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
                85   90   95

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
                100   105   110

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
                115   120   125

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
            130   135   140

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
145   150   155

1662

<210> 2183
<211> 239
<212> PRT
<213> Homo sapiens

<400> 2183

```
Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro Val
  1               5                  10                  15

Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala Val Gln
                 20                  25                  30

Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro Glu Leu Ile
             35                  40                  45

Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn Phe Leu Phe Phe
     50                  55                  60

Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met Ile Phe Leu Tyr Arg
 65                  70                  75                  80

Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp
                 85                  90                  95

Phe Val Phe Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly
             100                 105                 110

Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu
         115                 120                 125

Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe
     130                 135                 140

Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly
145                 150                 155                 160

Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile
                 165                 170                 175

Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln
             180                 185                 190

Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile
         195                 200                 205

Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu
     210                 215                 220

Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
225                 230                 235
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1663

<210> 2184
<211> 132
<212> PRT
<213> Homo sapiens

<400> 2184
Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala
 1   5   10   15

Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val
                20   25   30

Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro
            35   40   45

Trp Val Leu Met Gly Phe Ser Leu Leu Leu Gly Asn Ser Ile Ile Val
    50   55   60

Asp Leu Leu Gly Ile Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp
 65   70   75   80

Val Phe Pro Asn Gln Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser
                85   90   95

Ile Leu Lys Ala Ile Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn
            100   105   110

Pro Leu Pro Glu Glu Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln
            115   120   125

Arg Leu Gly Gly
        130

<210> 2185
<211> 339
<212> PRT
<213> Homo sapiens

<400> 2185
Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
 1   5   10   15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
                20   25   30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu
            35   40   45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu

1664

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile
65   70   75   80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro
                      85   90   95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn
              100   105   110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe
          115   120   125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe
          130   135   140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
145   150   155   160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp
                  165   170   175

Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln
              180   185   190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser
          195   200   205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys
          210   215   220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala
225   230   235   240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp
                  245   250   255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu
              260   265   270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly
          275   280   285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg
          290   295   300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly
305   310   315   320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu
                  325   330   335

Asp Asn Ala

<210> 2186
<211> 339
<212> PRT
<213> Homo sapiens

<400> 2186
Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
1   5   10   15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
            20   25   30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu
        35   40   45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu
    50   55   60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile
65   70   75   80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro
            85   90   95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn
            100   105   110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe
        115   120   125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe
    130   135   140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
145   150   155   160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp
            165   170   175

Pro Asp Gln Asp Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln
            180   185   190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser
    195   200   205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys

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        210                  215                    220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala
225                 230                 235                    240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp
                245                 250                 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu
                260                 265                 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly
            275                 280                 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg
            290                 295                 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly
305                 310                 315                    320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu
                325                 330                 335

Asp Asn Ala
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<210> 2187
<211> 509
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (244)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (246)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (294)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (493)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (498)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (499)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2187
Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln
 1   5   10   15

Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile
                20   25   30

1668

Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu
        35   40   45

Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg
        50   55   60

Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr
65   70   75   80

Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys
                85   90   95

Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn
                100   105   110

Ser Val Glu Gln Asn Asp Met Leu Arg Lys Val Thr Phe Asp Pro Glu
        115   120   125

Val Phe Phe Asn Ile Leu Leu Pro Pro Ile Ile Phe His Ala Gly Tyr
        130   135   140

Ser Leu Lys Lys Arg His Phe Phe Arg Asn Leu Gly Ser Ile Leu Ala
145   150   155   160

Tyr Ala Phe Leu Gly Thr Ala Xaa Ser Cys Phe Ile Ile Gly Asn Leu
                165   170   175

Met Tyr Gly Val Val Lys Leu Met Lys Ile Met Gly Gln Leu Ser Asp
            180   185   190

Lys Phe Tyr Tyr Thr Xaa Xaa Leu Phe Phe Gly Ala Ile Ile Ser Ala
            195   200   205

Thr Asp Pro Val Thr Val Leu Ala Ile Phe Asn Glu Leu His Ala Asp
    210   215   220

Val Asp Leu Tyr Ala Leu Leu Phe Gly Glu Ser Val Leu Asn Asp Ala
225   230   235   240

Val Ala Ile Xaa Leu Xaa Ser Ser Ile Val Ala Tyr Gln Pro Ala Gly
            245   250   255

Leu Asn Thr His Ala Phe Asp Ala Ala Ala Phe Phe Lys Ser Val Gly
            260   265   270

Ile Phe Leu Gly Ile Phe Ser Gly Ser Phe Thr Met Gly Ala Val Thr
            275   280   285

Gly Val Val Thr Ala Xaa Val Thr Lys Phe Thr Lys Xaa His Xaa Phe
    290   295   300

                            1669

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Pro Leu Leu Glu Thr Ala Leu Phe Phe Leu Met Ser Trp Ser Thr Phe
305                 310             315                 320

Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly Val Val Ala Val Leu Phe
                325             330                 335

Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Val Glu
            340             345                 350

Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu Val Leu His Phe Leu Ala
        355             360             365

Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln
    370             375             380

Lys His Val Phe Ser Pro Ile Phe Ile Ile Gly Ala Phe Val Ala Ile
385             390             395                 400

Phe Leu Gly Arg Ala Ala His Ile Tyr Pro Leu Ser Phe Phe Leu Asn
            405             410             415

Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met Met
            420             425             430

Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp
        435             440             445

Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile
    450             455             460

Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu
465             470             475                 480

Ser Trp Leu Asn Ile Arg Val Gly Val Asp Pro Asp Xaa Asp Pro Pro
            485             490             495

Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala
            500             505
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<210> 2188
<211> 146
<212> PRT
<213> Homo sapiens

<400> 2188
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Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu
  1             5                 10              15

Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser
            20              25                  30
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Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp
        35                  40                  45

Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu
        50                  55                  60

Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His
65                  70                  75                  80

Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala
                85                  90                  95

Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met
            100                 105                 110

Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp
        115                 120                 125

Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser
        130                 135                 140

Leu Gln
145


<210> 2189
<211> 530
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (488)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (490)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (494)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (495)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2189
Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1   5   10   15

Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln
                20   25   30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
            35   40   45

Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
        50   . 55   60

Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu
 65   70   75   80

Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
                85   90   95

Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr
            100   105   110

Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe
        115   .   120   125

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro
    130   135   140

Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp
145   150   155   160

Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu
                165   170   175

Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala Arg
            180   185   190

Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser
        195   200   205

Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser Val
    210   215   220

Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val
225   230   235   240

Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro

1672

Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His Arg
            260   265   270

Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys
            275   280   285

Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp Thr
    290   295   300

Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp Leu
305   310   315   320

Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro
            325   330   335

Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser
            340   345   350

Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg
            355   360   365

Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn
    370   375   380

Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp
385   390   395   400

Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys
            405   410   415

Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr
            420   425   430

Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys
            435   440   445

Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala
    450   455   460

Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val
465   470   475   480

Asn Val Ser Val Val Met Ala Xaa Val Xaa Gly Pro Cys Xaa Xaa Ala
            485   490   495

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys
            500   505   510

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            515   520   525

Lys Lys
    530

<210> 2190
<211> 265
<212> PRT
<213> Homo sapiens

<400> 2190
Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
  1   5   10   15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
                 20   25   30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
             35   40   45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
         50   55   60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
 65   70   75   80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
                 85   90   95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
                100   105   110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
            115   120   125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val
        130   135   140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser
145   150   155   160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe
                165   170   175

Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro
            180   185   190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys
        195   200   205

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly

                                1674

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg
225   230   235   240

Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser
                245   250   255

Gln Asn Arg Asn Ser Tyr Gly Thr Lys
                260   265

<210> 2191
<211> 99
<212> PRT
<213> Homo sapiens

<400> 2191
Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe
 1   5   10   15

Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser
                20   25   30

Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His
                35   40   45

Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala
                50   55   60

Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val
 65   70   75   80

Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr
                85   90   95

Glu Ala Leu

<210> 2192
<211> 144
<212> PRT
<213> Homo sapiens

<400> 2192
Met Pro Thr Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro Val Thr
 1   5   10   15

Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys Cys Arg Arg

Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp Phe Val Leu Ala
        35   40   45

Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr
    50   55   60

Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly Asn Leu Ala Ile Gln Gln
65   70   75   80

Ala Gly Lys Asn Met Ser Ala Arg Leu Thr Val Val Cys Lys Gln Cys
                85   90   95

Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile Ile Met Gly Gln Val Gly
            100   105   110

Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe
        115   120   125

Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys
    130   135   140

<210> 2193
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193
Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe
  1   5   10   15

Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr
            20   25   30

Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn
        35   40   45

```
Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile
    50              55                  60

Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp
 65              70                  75                      80

Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Xaa Val Phe Asn
                85                  90                  95

Xaa Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp
            100             105                 110

Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln
        115             120                 125

Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr
    130             135                 140

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr
145             150                 155                     160

Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys
            165                 170                 175

Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser
            180             185                 190

Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp
        195             200                 205

Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly
    210             215                 220

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr
225             230                 235                     240

Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile
            245                 250                 255

Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn
            260             265                 270

Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala
    275             280                 285

Leu Lys Asn Lys Gln Cys
    290
```

<210> 2194

1677

<211> 487
<212> PRT
<213> Homo sapiens

<400> 2194
Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
 1   5   10   15

Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
                20   25   30

Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile
            35   40   45

Ser Ser Gly Gly His Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys
        50   55   60

Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Asn Gly Val Thr Tyr Tyr
 65   70   75   80

Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln
                85   90   95

Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala
            100   105   110

Val Tyr Tyr Cys Ala Lys Asp His Arg Ala Thr Arg Asp Gly Tyr Gln
        115   120   125

Leu Glu Tyr Arg Gly Phe Asp Tyr Trp Gly Gln Gly Ile Leu Val Thr
        130   135   140

Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu
145   150   155   160

Asp Ser Thr Pro Gln Asp Gly Asn Val Val Ala Cys Leu Val Gln
                165   170   175

Gly Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly
                180   185   190

Gln Asn Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly
        195   200   205

Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys
        210   215   220

Pro Asp Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro
225   230   235   240

Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro Pro Pro Pro Cys
                245   250   255

1678

```
Cys His Pro Arg Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu
            260                 265                 270

Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp
            275                 280                 285

Ala Ser Gly Ala Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala
    290                 295                 300

Val Gln Gly Pro Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser
305                 310                 315                 320

Ser Val Leu Pro Gly Cys Ala Gln Pro Trp Asn His Gly Glu Thr Phe
                325                 330                 335

Thr Cys Thr Ala Ala His Pro Glu Leu Lys Thr Pro Leu Thr Ala Asn
            340                 345                 350

Ile Thr Lys Ser Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro
            355                 360                 365

Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys
    370                 375                 380

Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln
385                 390                 395                 400

Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg
                405                 410                 415

Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu
            420                 425                 430

Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met
            435                 440                 445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp
    450                 455                 460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala
465                 470                 475                 480

Glu Val Asp Gly Thr Cys Tyr
                485
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<210> 2195
<211> 189
<212> PRT
<213> Homo sapiens

1679

<400> 2195
Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
  1   5   10   15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
             20   25   30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
         35   40   45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
     50   55   60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
 65   70   75   80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
             85   90   95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
             100   105   110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
         115   120   125

Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser
     130   135   140

Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val
145   150   155   160

Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu
                 165   170   175

Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp
             180   185

<210> 2196
<211> 298
<212> PRT
<213> Homo sapiens

<400> 2196
Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu
  1   5   10   15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
             20   25   30

1680

```
Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
        35              40                  45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
        50              55                  60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
65                  70                  75                  80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
                85                  90                  95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
            100                 105                 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
        115                 120                 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
        130                 135                 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
145                 150                 155                 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
                165                 170                 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
        180                 185                 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
        195                 200                 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
        210                 215                 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
225                 230                 235                 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
                245                 250                 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
            260                 265                 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
            275                 280                 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
        290                 295
```

1681

<210> 2197
<211> 298
<212> PRT
<213> Homo sapiens

<400> 2197
Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu
1   5   10   15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
            20   25   30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
        35   40   45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
    50   55   60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
65   70   75   80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
                85   90   95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
            100   105   110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
        115   120   125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
    130   135   140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
145   150   155   160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
        165   170   175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
        180   185   190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
        195   200   205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
    210   215   220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
225   230   235   240

1682

```
Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
                245             250             255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
            260             265             270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
        275             280             285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
    290             295


<210> 2198
<211> 42
<212> PRT
<213> Homo sapiens

<400> 2198
Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val
  1               5               10              15

Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His
            20              25              30

Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser
            35              40


<210> 2199
<211> 472
<212> PRT
<213> Homo sapiens

<400> 2199
Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly
  1               5               10              15

Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln
            20              25              30

Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala
            35              40              45

Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp
        50              55              60

Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu
 65              70              75              80
```

1683

```
Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile
                85              90                  95

Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys
               100             105             110

Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp
           115             120             125

Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr
       130             135             140

Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp
145             150             155             160

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp
           165             170             175

Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu
           180             185             190

Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met
       195             200             205

Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val
       210             215             220

Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp
225             230             235             240

Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser
           245             250             255

Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile
       260             265             270

Phe Leu Glu Ile Leu Tyr Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg
       275             280             285

Glu Ile Leu Lys Gln Ile Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly
   290             295             300

Glu Thr Gln Pro Thr Gly Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu
305             310             315             320

Ser Leu Pro Lys Glu Val Ala Ser Ala Lys Pro Lys Val Leu Leu Asp
           325             330             335

Val Lys Leu Lys Ala Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp
       340             345             350

Tyr Gly Met Gln Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys


                            1684
```

```
           355                      360                      365
    Lys Thr Ala Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser
        370                      375               380

    Gln Leu Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys
    385                      390               395                  400

    Lys Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val
                    405               410               415

    Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp Val
                420               425               430

    Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr
                435               440               445

    Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys Ser Arg Val
        450                      455               460

    Gln Leu Phe Lys Asp Asp Pro Met
    465                 470
```

<210> 2200
<211> 626
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (353)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (354)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2200
```
    Met Gln Arg Ala Asp Ser Glu Gln Pro Ser Lys Arg Pro Arg Cys Asp
      1               5                  10                  15

    Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala Asp Trp
                    20               25                  30
```

Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp Gly Pro Glu
        35   40   45

Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu Glu Pro Val Leu
        50   55   60

Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly Ala Leu Leu Pro Cys
 65   70   75   80

Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly Val Ser Ser Leu Gly Glu
                85   90   95

Arg Lys Lys Leu Leu Ser Tyr Ile Gln Arg Leu Val Gln Ile His Val
                100   105   110

Asp Thr Met Lys Val Ile Asn Asp Pro Ile His Gly His Ile Glu Leu
                115   120   125

His Pro Leu Leu Val Arg Ile Ile Asp Thr Pro Gln Phe Gln Arg Leu
        130   135   140

Arg Tyr Ile Lys Gln Leu Gly Gly Gly Tyr Tyr Val Phe Pro Gly Ala
145   150   155   160

Ser His Asn Arg Phe Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly
                165   170   175

Cys Leu Val His Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser
                180   185   190

Glu Arg Asp Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu
                195   200   205

Gly His Gly Pro Phe Ser His Met Phe Asp Gly Arg Phe Ile Pro Leu
        210   215   220

Ala Arg Pro Glu Val Lys Trp Thr His Glu Gln Gly Ser Val Met Met
225   230   235   240

Phe Glu His Leu Ile Asn Ser Asn Gly Ile Lys Pro Val Met Glu Gln
                245   250   255

Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys Phe Ile Lys Glu Gln Ile
                260   265   270

Val Gly Pro Leu Glu Ser Pro Val Glu Asp Ser Leu Trp Pro Tyr Lys
                275   280   285

Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr Glu Ile Val Ser Asn Lys
        290   295   300

Arg Asn Gly Ile Asp Val Asp Lys Trp Asp Tyr Phe Ala Arg Asp Cys

1686

His His Leu Gly Ile Gln Asn Asn Phe Asp Tyr Lys Arg Phe Ile Lys
              325   330   335

Phe Ala Arg Val Cys Glu Val Asp Asn Glu Leu Arg Ile Cys Ala Arg
              340   345   350

Xaa Xaa Glu Val Gly Asn Leu Tyr Asp Met Xaa His Thr Arg Asn Ser
              355   360   365

Leu His Arg Arg Ala Tyr Gln His Lys Val Gly Asn Ile Ile Asp Thr
    370   375   380

Met Ile Thr Asp Ala Phe Leu Lys Ala Asp Asp Tyr Ile Glu Ile Thr
385   390   395   400

Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser Thr Ala Ile Asp Asp Met
              405   410   415

Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile Phe Leu Glu Ile Leu Tyr
              420   425   430

Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg Glu Ile Leu Lys Gln Ile
              435   440   445

Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly Glu Thr Gln Pro Thr Gly
    450   455   460

Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu Ser Leu Pro Lys Glu Val
465   470   475   480

Ala Ser Ala Lys Pro Lys Val Leu Leu Asp Val Lys Leu Lys Ala Glu
              485   490   495

Asp Phe Ile Val Asp Val Ile Asn Met Asp Tyr Gly Met Gln Glu Lys
              500   505   510

Asn Pro Ile Asp His Val Ser Phe Tyr Cys Lys Thr Ala Pro Asn Arg
              515   520   525

Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys
    530   535   540

Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys
545   550   555   560

Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg
              565   570   575

Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr
              580   585   590

```
Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr
        595                 600                 605


Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp
        610                 615                 620


Pro Met
625




<210> 2201
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2201
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
  1               5                  10                  15


Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
                20                  25                  30


Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
            35                  40                  45


Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
        50                  55                  60


Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65                  70                  75                  80


Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
                85                  90                  95


Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
               100                 105                 110


Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa
               115                 120                 125


Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
        130                 135                 140


Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145                 150                 155                 160
```

1688

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
                    165   170   175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
                    180   185   190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
                    195   200   205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
            210   215   220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225   230   235   240

Ile Phe Pro Ser Ala
                245

<210> 2202
<211> 32
<212> PRT
<213> Homo sapiens

<400> 2202
Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Ser Ser Leu
  1   5   10   15

Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr
                20   25   30

<210> 2203
<211> 245
<212> PRT
<213> Homo sapiens

<400> 2203
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
  1   5   10   15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
                20   25   30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
            35   40   45

1689

```
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
    50                  55                  60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65                  70                  75                  80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
                 85                  90                  95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
                100                 105                 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
            115                 120                 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
    130                 135                 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145                 150                 155                 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
                165                 170                 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
            180                 185                 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
            195                 200                 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
    210                 215                 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225                 230                 235                 240

Ile Phe Pro Ser Ala
                245


<210> 2204
<211> 245
<212> PRT
<213> Homo sapiens

<400> 2204
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
  1               5                  10                  15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
```

```
                20                      25                      30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
         35              40                  45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
     50              55                  60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65              70              75                      80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
             85              90                      95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
             100             105                 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
         115             120                 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
     130             135                 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145             150                 155                     160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
             165             170                     175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
             180             185                 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
         195             200                 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
     210             215                 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225             230                 235                     240

Ile Phe Pro Ser Ala
             245



<210> 2205
<211> 245
<212> PRT
<213> Homo sapiens

<400> 2205
```

1691

```
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1               5                   10                  15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
            20              25              30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
        35              40                  45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
    50              55                  60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65              70                  75                      80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
            85                  90                  95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
            100             105             110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
        115             120             125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
    130             135             140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145             150             155             160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
            165             170             175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
            180             185             190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
        195             200             205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
    210             215             220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225             230             235             240

Ile Phe Pro Ser Ala
                245
```

```
<210> 2206
<211> 245
```

<212> PRT
<213> Homo sapiens

<400> 2206
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1   5   10   15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
            20   25   30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
            35   40   45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
    50   55   60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65   70   75   80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
                85   90   95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
            100   105   110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
            115   120   125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
    130   135   140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145   150   155   160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
                165   170   175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
            180   185   190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
            195   200   205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
    210   215   220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225   230   235   240

Ile Phe Pro Ser Ala
                245

<210> 2207
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207
```
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1               5                  10                  15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
            20                  25                  30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Xaa Lys
            35                  40                  45

Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
    50                  55                  60

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
65                  70                  75                  80

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
            85                  90                  95

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
            100                 105                 110

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
            115                 120                 125

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
    130                 135                 140

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
145                 150                 155                 160

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
            165                 170                 175

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
```

1694

```
              180                    185                    190
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
        195                    200                    205

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
    210                    215                    220

Ile Phe Pro Ser Ala
225



<210> 2208
<211> 207
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2208
Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1                 5                    10                   15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
                20                    25                    30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
            35                    40                    45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
    50                    55                    60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile
 65                    70                    75                   80

Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr
                85                    90                    95
```

1695

```
Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa
            100             105             110

Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr
        115             120             125

Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu
    130             135             140

Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys
145             150             155             160

Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly
            165             170             175

Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile
            180             185             190

Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp
        195             200             205


<210> 2209
<211> 235
<212> PRT
<213> Homo sapiens

<400> 2209
Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp
 1           5               10              15

Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser
            20              25              30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser
        35              40              45

Gln Ser Ile Gly Lys Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln
    50              55              60

Ala Pro Lys Leu Leu Ile Ser Gly Ala Ser Ile Leu Gln Thr Gly Val
65              70              75              80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Ala Thr Tyr Phe Thr Leu Thr
            85              90              95

Ile Asn Asp Leu His Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln
            100             105             110

Asp Tyr Thr Thr Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
        115             120             125
```

1696

```
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
    130                 135                 140

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
145             150                 155                     160

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
            165                 170                 175

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
            180                 185                 190

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
        195             200             205

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
    210             215             .       220
                                                                    :
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225             230             235                                 '
```

<210> 2210
<211> 234
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210

```
Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser
  1           ·   5                 10                  15

Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser
            20                  25                  30

Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp
        35                  40                  45

Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro
    50                  55                  60

Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser
 65                 70                  75                      80

Arg Phe Ser Gly Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn
            85                  90                  95
```

Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn
            100   105   110

Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg
            115   120   125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
        130   135   140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145   150   155   160
  .

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
                165   170   175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
            180   185   190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
      .   195   200   205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
        210   215   220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225   230

<210> 2211
<211> 206
<212> PRT
<213> Homo sapiens

<400> 2211
Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1   5   10   15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
            20   25   30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
          35   40   45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
      50   55   60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Arg Tyr Lys Gln Lys Phe Gln
65   70   75   80

Ser Val Phe Thr Val Thr Arg Gln Thr His Gln Pro Pro Ala Pro Asn

Ser Leu Ile Arg Phe Asn Ala Val Leu Thr Asn Pro Gln Gly Asp Tyr
            100   105   110

Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr Tyr
            115   120   125

Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu Tyr
        130   135   140

Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys Thr
145   150   155   160

Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu
                165   170   175

Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile Gln
            180   185   190

Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp
        195   200   205

<210> 2212
<211> 208
<212> PRT
<213> Homo sapiens

<400> 2212
Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1   5   10   15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
                20   25   30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
            35   40   45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
    50   55   60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu
65   70   75   80

Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Pro Pro Gly Met Pro
                85   90   95

Gly Val Pro Gly Pro Met Gly Ile Pro Gly Glu Pro Gly Glu Glu Gly
            100   105   110

Arg Tyr Lys Gln Lys Phe Gln Ser Val Phe Thr Val Thr Arg Gln Thr
        115   120   125

His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg Phe Asn Ala Val Leu
        130   135   140

Thr Asn Pro Gln Glu Ile Met Thr Arg Ala Leu Ala Ser Ser Pro Ala
145   150   155   160

Lys Ser Pro Ala Ser Thr Thr Leu Ser Thr Thr Arg Arg Ile Gln Pro
                165   170   175

Thr Cys Ala Cys Cys Cys Thr Ala Ala Ala Ser Lys Trp Ser Pro Ser
            180   185   190

Val Ala Thr Arg Pro Lys Pro Ile Arg Ser Thr Arg Ala Val Cys Cys
        195   200   205

<210> 2213
<211> 263
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2213
Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro
  1   5   10   15

Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser
            20   25   30

Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln
        35   40   45

Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe
    50   55   60

Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys

1700

Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr
                    85   90   95

Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa
                    100   105   110

Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln
                    115   120   125

Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr
    130   135   140

Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro
145   150   155   160

Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr
                    165   170   175

Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly
                    180   185   190

Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser
                    195   200   205

Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys
    210   215   220

Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln
225   230   235   240

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu
                    245   250   255

Asn Ser Asp Leu Leu Tyr Cys
                    260

<210> 2214
<211> 55
<212> PRT
<213> Homo sapiens

<400> 2214
Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro
  1   5   10   15

Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala
                  20   25   30

Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg
        35   40   45

Val Phe Leu Lys Asn Ser Gln
    50   55

<210> 2215
<211> 350
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215
Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly
 1   5   10   15

Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn
            20   25   30

Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu
            35   40   45

Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala
    50   55   60

Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val
 65   70   75   80

Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr
                85   90   95

Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser
            100   105   110

Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala
            115   120   125

Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe
    130   135   140

Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln

1702

Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn
            165   170   175

Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp
            180   185   190

Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser
            195   200   205

Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys
    210   215   220

Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu
225   230   235   240

Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly
            245   250   255

Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser
            260   265   270

Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn
            275   280   285

Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser
    290   295   300

Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala
305   310   315   320

Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp
            325   330   335

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp
            340   345   350

<210> 2216
<211> 350
<212> PRT
<213> Homo sapiens

<400> 2216
Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly
  1   5   10   15

Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn
            20   25   30

```
Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu
        35              40                  45

Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala
        50              55              60

Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val
 65              70                  75                      80

Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr
                85              90                      95

Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser
            100             105             110

Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala
            115             120             125

Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe
    130             135             140

Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln
145             150             155             160

Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn
            165             170             175

Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp
            180             185             190

Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser
            195             200             205

Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys
    210             215             220

Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu
225             230             235             240

Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly
            245             250             255

Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser
            260             265             270

Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn
    275             280             285

Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser
    290             295             300

Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala
```

Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp
                325   330   335

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp
                340   345   350

<210> 2217
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217
Met Cys Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val
  1   5   10   15

Tyr Cys Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu
                20   25   30

Phe Ser Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val
                35   40   45

Thr Pro Ser Ile Leu Gln Leu Met Ala His Asn Lys Xaa Met Val Glu
     50   55   60

Met Val Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Xaa Cys
 65   70   75   80

Asn Ser Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile
                85   90   95

Gln Ser Asn Ile Lys His Leu Ser Ala Gly Leu Gln Leu Arg Leu Gln
                100   105   110

Ala Ile Gln Asn His Val Asn His His Ser Leu Arg Thr Leu Pro Gly
                115   120   125

Ser Gly Gln Ser Ser Ala Gly Leu Ala Ala Leu Arg Lys Trp Leu Gln
     130   135   140

1705

Cys Thr Gln Phe Lys Met Ala Gln Val Glu Ile Gln Ser Ser Glu Ala
145   150   155   160

Ala Ser Gln Phe Tyr Pro Leu
                165

<210> 2218
<211> 110
<212> PRT
<213> Homo sapiens

<400> 2218
Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr
  1   5   10   15

Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr
              20   25   30

Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu
          35   40   45

Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu
      50   55   60

Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln
 65   70   75   80

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu
              85   90   95

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro
              100   105   110

<210> 2219
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

1706

<400> 2219

```
Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly
 1               5                   10                  15

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly
              20                  25                  30

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His
          35                  40                  45

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys
      50                  55                  60

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp
 65              70                  75                      80

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala
              85                  90                  95

Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val
             100                 105                 110

Ser Lys Thr
          115
```

<210> 2220
<211> 262
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (254)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2220

```
Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
 1               5                   10                  15

Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
              20                  25                  30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
          35                  40                  45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
      50                  55                  60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
```

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
                  85   90   95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
                 100   105   110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
             115   120   125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
         130   135   140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
145   150   155   160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
                 165   170   175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
             180   185   190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
         195   200   205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
    210   215   220

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
225   230   235   240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser
             245   250   255

Arg Asn Phe Gln Thr Lys
             260

<210> 2221
<211> 514
<212> PRT
<213> Homo sapiens

<400> 2221
Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg
 1   5   10   15

Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser
             20   25   30

```
Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln
        35                  40                  45

Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser
        50                  55                  60

Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys Asp Asp Cys Pro
65                  70                  75                  80

Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser Thr Ser Cys Gly
                85                  90                  95

Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr
                100                 105                 110

Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro Pro Leu Pro Phe
                115                 120                 125

Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly
        130                 135                 140

Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala Ala Arg Lys Val
145                 150                 155                 160

Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly
                165                 170                 175

Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu Arg Cys Pro Ala
                180                 185                 190

Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His
        195                 200                 205

Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys
        210                 215                 220

Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr Thr Cys Ser Ala
225                 230                 235                 240

Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile Gly Gly Asn Arg
                245                 250                 255

Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu Glu Glu Val Leu
                260                 265                 270

Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln Thr His Lys His
        275                 280                 285

Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu Lys Arg Gly Leu
        290                 295                 300

Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val Ser Arg Leu Leu
```

1709

Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser Trp Glu Ala Gln
            325   330   335

Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp Pro Gly Ala Glu
            340   345   350

Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr Glu Gln Arg Arg
            355   360   365

Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro Glu Glu Leu Arg
            370   375   380

Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala Gln Glu Ile Phe
385   390   395   400

Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys Pro Ser Glu Arg
            405   410   415

Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His Val Ser Gly Phe
            420   425   430

Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala Gly Gly Gly Ser
            435   440   445

Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys Ile Ser Ala Ala
            450   455   460

Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu Gly Gln Thr Val
465   470   475   480

Ala Leu Ala Ser Gly Thr Leu Ser Val Phe Cys Thr Val Arg Pro Ser
            485   490   495

Ala Thr Gln Gly Leu Pro Ser Ala Gly Pro Gly Met Glu Lys Lys Ser
            500   505   510

Val Gln

<210> 2222
<211> 1745
<212> PRT
<213> Homo sapiens

<400> 2222
Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
  1   5   10   15

1710

Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
        20   25   30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
        35   40   45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
        50   55   60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
65   70   75   80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
                85   90   95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
            100   105   110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
        115   120   125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
    130   135   140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
145   150   155   160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
            165   170   175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
            180   185   190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
        195   200   205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
    210   215   220

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
225   230   235   240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe
            245   250   255

Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr
        260   265   270

Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr
        275   280   285

Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr

1711

Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr
305   310   315   320

Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln
             325   330   335

Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln
             340   345   350

Glu Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ala Thr Pro Trp
             355   360   365

Thr Ala Cys Ser Ser Ser Cys Gly Gly Gly Ile Gln Ser Arg Ala Val
             370   375   380

Ser Cys Val Glu Glu Asp Ile Gln Gly His Val Thr Ser Val Glu Glu
385   390   395   400

Trp Lys Cys Met Tyr Thr Pro Lys Met Pro Ile Ala Gln Pro Cys Asn
             405   410   415

Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys Thr
             420   425   430

Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile Asp
             435   440   445

His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro His
       450   455   460

Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys Glu
465   470   475   480

Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln Glu
             485   490   495

Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro Lys
             500   505   510

Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val Arg
             515   520   525

Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala Asp
       530   535   540

Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg Ala
545   550   555   560

Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro Asp
             565   570   575

Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu Tyr
          580   585   590

Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly Gly
          595   600   605

Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg Glu
          610   615   620

Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln Leu
625   630   635   640

Leu Lys Ser Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ile Gly
                    645   650   655

Lys Trp Ser Pro Cys Ser Leu Thr Cys Gly Val Gly Leu Gln Thr Arg
                    660   665   670

Asp Val Phe Cys Ser His Leu Leu Ser Arg Glu Met Asn Glu Thr Val
          675   680   685

Ile Leu Ala Asp Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln
          690   695   700

Ala Cys Asn Arg Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp
705   710   715   720

Gln Pro Cys Ser Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val
                    725   730   735

Leu Cys Lys Gln Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu
                    740   745   750

Thr Phe Cys Ser Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys
          755   760   765

Asp Asp Cys Pro Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser
          770   775   780

Thr Ser Cys Gly Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys
785   790   795   800

Met Leu Lys Thr Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro
                    805   810   815

Pro Leu Pro Phe Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys
                    820   825   830

Ala Arg Pro Gly Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala
          835   840   845

                            1713

Ala Arg Lys Val Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe
    850   855   860

Val Val Gly Gly Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu
865   870   875   880

Arg Cys Pro Ala Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys
            885   890   895

Asp Gly Gln His Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe
            900   905   910

Gly Tyr Leu Lys Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr
        915   920   925

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile
    930   935   940

Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu
945   950   955   960

Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln
            965   970   975

Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu
            980   985   990

Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val
        995   1000   1005

Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser
    1010   1015   1020

Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp
1025   1030   1035   1040

Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr
            1045   1050   1055

Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro
        1060   1065   1070

Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala
        1075   1080   1085

Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys
    1090   1095   1100

Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His
1105   1110   1115   1120

Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala

1714

```
Gly Gly Gly Ser  Arg Arg Pro His Arg  Lys Pro Thr Ile Leu  Arg Lys
            1140              1145              1150

Ile Ser Ala  Ala Gln Gln Leu Ser  Ala Ser Glu Val Val  Thr His Leu
        1155          ·   1160              1165

Gly Gln  Thr Val Ala Leu Ala  Ser Gly Thr Leu Ser  Val Leu Leu His
    1170              1175              1180

Cys  Glu Ala Ile Gly His  Pro Arg Pro Thr Ile  Ser Trp Ala Arg Asn
1185              1190              1195              1200

Gly Glu Glu Val Gln  Phe Ser Asp Arg Ile  Leu Leu Gln Pro Asp  Asp
                1205              1210              1215

Ser Leu Gln Ile  Leu Ala Pro Val Glu  Ala Asp Val Gly Phe  Tyr Thr
            1220              1225              1230

Cys Asn Ala  Thr Asn Ala Leu Gly  Tyr Asp Ser Val Ser  Ile Ala Val
        1235              1240              1245

Thr Leu  Ala Gly Lys Pro Leu  Val Lys Thr Ser Arg  Met Thr Val Ile
    1250              1255              1260

Asn  Thr Glu Lys Pro Ala  Val Thr Val Asp Ile  Gly Ser Thr Ile Lys
1265              1270              1275              1280

Thr Val Gln Gly Val  Asn Val Thr Ile Asn  Cys Gln Val Ala Gly  Val
                1285              1290              1295

Pro Glu Ala Glu  Val Thr Trp Phe Arg  Asn Lys Ser Lys Leu  Gly Ser
            1300              1305              1310

Pro His His  Leu His Glu Gly Ser  Leu Leu Leu Thr Asn  Val Ser Ser
        1315              1320              1325

Ser Asp  Gln Gly Leu Tyr Ser  Cys Arg Ala Ala Asn  Leu His Gly Glu
    1330              1335              1340

Leu  Thr Glu Ser Thr Gln  Leu Leu Ile Leu Asp  Pro Pro Gln Val Pro
1345              1350              1355              1360

Thr Gln Leu Glu Asp  Ile Arg Ala Leu Leu  Ala Ala Thr Gly Pro  Asn
                1365              1370              1375

Leu Pro Ser Val  Leu Thr Ser Pro Leu  Gly Thr Gln Leu Val  Leu Asp
            1380              1385              1390

Pro Gly Asn  Ser Ala Leu Leu Gly  Cys Pro Ile Lys Gly  His Pro Val
        1395              1400              1405
```

```
Pro Asn  Ile Thr Trp Phe His  Gly Gly Gln Pro Ile  Val Thr Ala Thr
    1410             1415             1420

Gly  Leu Thr His His Ile  Leu Ala Ala Gly Gln  Ile Leu Gln Val Ala
1425             1430             1435             1440

Asn Leu Ser Gly Gly  Ser Gln Gly Glu Phe  Ser Cys Leu Ala Gln  Asn
            1445             1450             1455

Glu Ala Gly Val  Leu Met Gln Lys Ala  Ser Leu Val Ile Gln  Asp Tyr
            1460             1465             1470

Trp Trp Ser  Val Asp Arg Leu Ala  Thr Cys Ser Ala Ser  Cys Gly Asn
        1475             1480             1485

Arg Gly  Val Gln Gln Pro Arg  Leu Arg Cys Leu Leu  Asn Ser Thr Glu
    1490             1495             1500

Val  Asn Pro Ala His Cys  Ala Gly Lys Val Arg  Pro Ala Val Gln Pro
1505             1510             1515             · 1520

Ile Ala Cys Asn Arg  Arg Asp Cys Pro Ser  Arg Trp Met Val Thr  Ser
            1525             1530             1535

Trp Ser Ala Cys  Thr Arg Ser Cys Gly  Gly Gly Val Gln Thr  Arg Arg
            1540             1545             1550

Val Thr Cys  Gln Lys Leu Lys Ala  Ser Gly Ile Ser Thr  Pro Val Ser
        1555             1560             1565

Asn Asp  Met Cys Thr Gln Val  Ala Lys Arg Pro Val  Asp Thr Gln Ala
    1570             1575             1580

Cys  Asn Gln Gln Leu Cys  Val Glu Trp Ala Phe  Ser Ser Trp Gly Gln
1585             1590             1595             1600

Cys Asn Gly Pro Cys  Ile Gly Pro His Leu  Ala Val Gln His Arg  Gln
            1605             1610             1615

Val Phe Cys Gln  Thr Arg Asp Gly Ile  Thr Leu Pro Ser Glu  Gln Cys
            1620             1625             1630

Ser Ala Leu  Pro Arg Pro Val Ser  Thr Gln Asn Cys Trp  Ser Glu Ala
        1635             1640             1645

Cys Ser  Val His Trp Arg Val  Ser Leu Trp Thr Leu  Cys Thr Ala Thr
    1650             1655             1660

Cys  Gly Asn Tyr Gly Phe  Gln Ser Arg Arg Val  Glu Cys Val His Ala
1665             1670             1675             1680
```

Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg
              1685   1690   1695

Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu
              1700   1705   1710

Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu
          1715   1720   1725

Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys
      1730   1735   1740

Ala
1745

<210> 2223
<211> 19
<212> PRT
<213> Homo sapiens

<400> 2223
Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu
  1   5   10   15

Ser Gly Gln

<210> 2224
<211> 363
<212> PRT
<213> Homo sapiens

<400> 2224
Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser Ala Phe Ser
  1   5   10   15

Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser Gln Thr Ser
              20   25   30

Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys Met Ala Arg
          35   40   45

Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu Asn Asn Met
      50   55   60

Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser Glu Ala Pro
 65   70   75   80

1717

```
Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu Gln Glu Glu
              85              90              95

Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala Glu Ala His
             100             105             110

Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln Leu Lys Pro
             115             120             125

Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val Gln Glu Leu
    130             135             140

Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala Gln Leu Leu
145             150             155             160

Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu Gln Ser Arg
             165             170             175

Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His Pro Tyr Ala
             180             185             190

Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu Leu His Arg
             195             200             205

Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu Ser Arg Cys
    210             215             220

Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys Ala Leu His
225             230             235             240

Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu Leu Ile Arg
             245             250             255

Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala Gly Pro Asp Pro Gln
             260             265             270

Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe Arg Gln Asp
             275             280             285

Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp Gln Glu Thr
    290             295             300

Glu Glu Val Gln Gln Gln Leu Ala Pro Pro Pro Gly His Ser Ala
305             310             315             320

Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val Leu Ser Lys
             325             330             335

Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr His Ser Leu
             340             345             350

His Asp Gln Gly His Ser His Leu Gly Asp Pro
```

1718

```
<210> 2225
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2225
Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
 1               5                   10                  15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
            20              25                  30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
        35                  40                  45

Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
    50                  55                  60

Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
 65                  70                  75                  80

Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
                85                  90                  95

Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
            100             105                 110

Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly
            115             120                 125

Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly
            130             135                 140

Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val
145             150                 155                 160

Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg
                165                 170                 175
```

1719

Arg Leu Cys Gly Cys Gly Gly
          180

<210> 2226
<211> 252
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2226
Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1   5   10   15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
              20   25   30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
          35   40   45

Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
     50   55   60

Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
 65   70   75   80

Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
              85   90   95

Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
              100   105   110

                        1720

Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp
        115   120   125

Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly
    130   135   140

Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg
145   150   155   160

Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser
            165   170   175

Ala Ala Leu Arg Leu Trp Trp Leu Arg Val Pro Gly Leu Ala Pro Arg
            180   185   190

Ser Cys Ser Ala Gly Gly Ala Arg Leu Thr Tyr Leu Leu Glu Thr Trp
    195   200   205

Met Gln Arg Gln Arg Gly Gly Glu Trp Ala Gly Ala Thr Ser Ser Glu
    210   215   220

Cys Asn Lys Gly His His Ser Pro Gly Lys Lys Lys Lys Lys Lys Lys
225   230   235   240

Lys Lys Lys Lys Lys Leu Glu Gly Gly Ser Arg Tyr
            245   250

<210> 2227
<211> 150
<212> PRT
<213> Homo sapiens

<400> 2227
Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1   5   10   15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
            20   25   30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
        35   40   45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
    50   55   60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
 65   70   75   80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn

1721

```
                85                        90                        95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
            100                     105             110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
            115                 120             125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
        130             135                 140

Ile Ser Ile Met Ile Cys
145                 150


<210> 2228
<211> 125
<212> PRT
<213> Homo sapiens

<400> 2228
Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val
  1               5                  10                    15

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met
                20                  25                  30

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu
            35                  40                  45

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala
    50                  55                  60

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly
65                  70                  75                      80

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro
                85                  90                  95

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe
            100                 105                 110

Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu
            115                 120                 125


<210> 2229
<211> 766
<212> PRT
<213> Homo sapiens


                              1722
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<400> 2229

```
Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
  1               5                  10                  15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
             20                  25                  30

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
          35                  40                  45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
       50                  55                  60

Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu
65                  70                  75                  80

Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe
                85                  90                  95

Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg
             100                 105                 110

Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile
             115                 120                 125

Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu
       130                 135                 140

Glu Ser Leu Thr Ile Phe Val Asp Lys Arg Lys Leu Ser Lys Arg Ala
145                 150                 155                 160

Glu Gly Ser Asp Ser Thr Thr Asn Ser Ser Ser Val Thr Leu Glu Thr
                165                 170                 175

Leu His Gln Leu Ala Ala Ser Tyr Phe Ile Asp Arg Asp Ser Thr Leu
             180                 185                 190

Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr
             195                 200                 205

Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp
       210                 215                 220

Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu
225                 230                 235                 240

Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val
             245                 250                 255

Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile
             260                 265                 270
```

1723

Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu
        275   280   285

Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu
        290   295   300

Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser
305   310   315   320

Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu
                325   330   335

Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln
            340   345   350

Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys
        355   360   365

Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His
        370   375   380

Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp
385   390   395   400

Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu
                405   410   415

Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln
        420   425   430

Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala
        435   440   445

Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn
    450   455   460

Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu
465   470   475   480

Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu
            485   490   495

Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala
            500   505   510

Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser
        515   520   525

Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser
    530   535   540

1724

```
Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr
545             550             555             560

Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe
            565             570             575

Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser
            580             585             590

Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr
        595             600             605

Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr
        610             615             620

Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly
625             630             635             640

Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg
            645             650             655

Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser
            660             665             670

Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp
        675             680             685

Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu
    690             695             700

Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg
705             710             715             720

Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr
            725             730             735

Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys
            740             745             750

Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser
    755             760             765
```

<210> 2230
<211> 61
<212> PRT
<213> Homo sapiens

<400> 2230
```
Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala
 1             5             10              15
```

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser
            20   25   30

Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr
            35   40   45

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln
    50   55   60

<210> 2231
<211> 133
<212> PRT
<213> Homo sapiens

<400> 2231
Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr
  1   5   10   15

Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro
            20   25   30

Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile
            35   40   45

Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly
    50   55   60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr
 65   70   75   80

Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
                85   90   95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro
            100   105   110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val
            115   120   125

Phe Phe Val Arg Asp
    130

<210> 2232
<211> 131
<212> PRT
<213> Homo sapiens

<400> 2232
Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu
1   5   10   15

Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn
                20   25   30

Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu
            35   40   45

Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp
        50   55   60

Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile
65   70   75   80

Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu
                85   90   95

Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp
            100   105   110

Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe
            115   120   125

Val Arg Asp
    130

<210> 2233
<211> 298
<212> PRT
<213> Homo sapiens

<400> 2233
Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu
1   5   10   15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
                20   25   30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
            35   40   45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
        50   55   60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
65   70   75   80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu

1727

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
            100   105   110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
        115   120   125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
    130   135   140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
145   150   155   160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
            165   170   175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
            180   185   190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
            195   200   205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
    210   215   220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
225   230   235   240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
            245   250   255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
            260   265   270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys
        275   280   285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
    290   295

<210> 2234
<211> 158
<212> PRT
<213> Homo sapiens

<400> 2234
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
  1   5   10   15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
            20   25   30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala
            35   40   45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
    50   55   60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp
65   70   75   80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly
                85   90   95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
            100   105   110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
        115   120   125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
    130   135   140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
145   150   155

<210> 2235
<211> 58
<212> PRT
<213> Homo sapiens

<400> 2235
Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp
  1   5   10   15

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln
            20   25   30

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser
            35   40   45

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly
    50   55

<210> 2236
<211> 71
<212> PRT

1729

<213> Homo sapiens

<400> 2236
Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala
 1   5   10   15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu
              20   25   30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val
          35   40   45

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu
      50   55   60

Ile His Val Gly Leu Leu Asn
 65   70

<210> 2237
<211> 605
<212> PRT
<213> Homo sapiens

<400> 2237
Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro
 1   5   10   15

Leu Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala
              20   25   30

Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu
          35   40   45

Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro
      50   55   60

Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly
 65   70   75   80

Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln
              85   90   95

Tyr Phe Trp Glu Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu
              100   105   110

Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly
          115   120   125

Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser
      130   135   140

1730

```
Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro
145             150             155             160

Arg Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu
            165             170             175

Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Leu Leu Pro Val
        180             185             190

Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu
        195             200             205

Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp
    210             215             220

Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly
225             230             235             240

Pro Ser Leu Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly
            245             250             255

Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala
            260             265             270

Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu
        275             280             285

Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro
    290             295             300

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His
305             310             315             320

Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu
            325             330             335

Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln
            340             345             350

Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln
        355             360             365

Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser
    370             375             380

Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile
385             390             395             400

Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu
            405             410             415
```

1731

```
Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp
            420             425             430

His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met
        435             440             445

Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser
    450             455             460

Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn
465             470             475             480

Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser
            485             490             495

Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys
            500             505             510

Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg
            515             520             525

Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val
    530             535             540

Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser
545             550             555             560

Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala
            565             570             575

Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp
            580             585             590

Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
    595             600             605


<210> 2238
<211> 432
<212> PRT
<213> Homo sapiens

<400> 2238
Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
 1               5               10              15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
            20              25              30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
        35              40              45
```

                                    1732

```
Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
    50              55                  60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
 65              70                  75                      80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
                85                  90                  95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
                100             105             110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
        115             120             125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
    130             135                 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
145             150             155                 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
            165             170                 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
        180             185             190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
        195             200             205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
    210             215             220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
225             230             235                 240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
            245             250             255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
        260             265             270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
        275             280             285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe
    290             295             300

Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
305             310             315                 320
```

Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
            325   330   335

Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
            340   345   350

Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
            355   360   365

Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
    370   375   380

Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
385   390   395   400

Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
            405   410   415

Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
            420   425   430

<210> 2239
<211> 432
<212> PRT
<213> Homo sapiens

<400> 2239
Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
  1   5   10   15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
            20   25   30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
            35   40   45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
    50   55   60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
65   70   75   80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
            85   90   95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
            100   105   110

1734

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
        115   120   125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
        130   135   140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
145   150   155   160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
                165   170   175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
                180   185   190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
        195   200   205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
        210   215   220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
225   230   235   240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
                245   250   255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
                260   265   270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
                275   280   285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe
        290   295   300

Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
305   310   315   320

Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
                325   330   335

Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
                340   345   350

Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
        355   360   365

Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
        370   375   380

1735

Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
385   390   395   400

Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
            405   410   415

Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
            420   425   430

<210> 2240
<211> 69
<212> PRT
<213> Homo sapiens

<400> 2240
Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser
 1   5   10   15

Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu
            20   25   30

Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr
            35   40   45

Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala
        50   55   60

Pro Phe Ile Lys Ile
 65

<210> 2241
<211> 57
<212> PRT
<213> Homo sapiens

<400> 2241
Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His
 1   5   10   15

Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu
            20   25   30

Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser
            35   40   45

1736

Trp Ala Arg Pro Leu Gly Asp Leu Glu
    50   55

<210> 2242
<211> 145
<212> PRT
<213> Homo sapiens

<400> 2242
Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Leu Pro
 1   5   10   15

Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu
                20   25   30

Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Leu Gln Leu Leu Asp
            35   40   45

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala
        50   55   60

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu
 65   70   75   80

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly
                85   90   95

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser
            100   105   110

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln
        115   120   125

Ala Tyr Pro Thr Ser Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn
    130   135   140

Arg
145

<210> 2243
<211> 77
<212> PRT
<213> Homo sapiens

<400> 2243
Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp
 1   5   10   15

1737

Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Gly Arg
        20   25   30

Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn
        35   40   45

Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser
    50   55   60

Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr
65   70   75

<210> 2244
<211> 86
<212> PRT
<213> Homo sapiens

<400> 2244
Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile
 1   5   10   15

Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val
        20   25   30

Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile
        35   40   45

Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr
    50   55   60

His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr
65   70   75   80

Ala Ile Pro Gly Cys Leu
                85

<210> 2245
<211> 208
<212> PRT
<213> Homo sapiens

<400> 2245
Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr
 1   5   10   15

Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met
        20   25   30

1738

Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser
        35   40   45

Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn
    50   55   60

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp
65   70   75   80

Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn
            85   90   95

Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu
        100   105   110

Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile
    115   120   125

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala
    130   135   140

Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys
145   150   155   160

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr
            165   170   175

Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser
            180   185   190

Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile
        195   200   205

<210> 2246
<211> 215
<212> PRT
<213> Homo sapiens

<400> 2246
Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys
1   5   10   15

Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu
            20   25   30

Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly
        35   40   45

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Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala
    50                  55                  60

Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro
65                  70                  75                  80

Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys
                85                  90                  95

Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu
                100                 105                 110

Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg
            115                 120                 125

Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser
    130                 135                 140

Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr
145                 150                 155                 160

Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu
            165                 170                 175

Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln
            180                 185                 190

Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly
    195                 200                 205

Ser Thr Ser Leu Ala Ser His
    210                 215


<210> 2247
<211> 139
<212> PRT
<213> Homo sapiens

<400> 2247
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
    1               5                   10                  15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
                20                  25                  30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
            35                  40                  45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
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          50                    55                    60
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65                  70                  75                  80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
                85                  90                  95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
            100                 105                 110

Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu
            115                 120                 125

Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly
            130                 135



<210> 2248
<211> 363
<212> PRT
<213> Homo sapiens

<400> 2248
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
  1               5                  10                  15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
               20                  25                  30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
            35                  40                  45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
        50                  55                  60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65                  70                  75                  80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
                85                  90                  95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
            100                 105                 110

Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys
            115                 120                 125

Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn
            130                 135                 140
```

Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
145   150   155   160

Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
                165   170   175

Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
                180   185   190

Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
        195   200   205

Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe
    210   215   220

Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
225   230   235   240

Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala
                245   250   255

Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
            260   265   270

Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
        275   280   285

Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
    290   295   300

Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
305   310   315   320

Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
                325   330   335

Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
                340   345   350

Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
                355   360

<210> 2249
<211> 85
<212> PRT
<213> Homo sapiens

<400> 2249
Met Ala Ala Gly Gly Cys Leu Leu Leu Ala Phe Phe Pro Leu Ser
 1   5   10   15

1742

```
Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser
            20                  25                  30

Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys
        35                  40                  45

Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile
    50                  55                  60

Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile
65                  70                  75                  80

Lys Pro His Phe Gln
                85


<210> 2250
<211> 184
<212> PRT
<213> Homo sapiens

<400> 2250
Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg
 1               5                  10                  15

Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Glu Asp Glu Asp
            20                  25                  30

His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu
        35                  40                  45

Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg
    50                  55                  60

Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr
65                  70                  75                  80

Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly
            85                  90                  95

Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp
            100                 105                 110

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met
        115                 120                 125

Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser
    130                 135                 140

Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser

                              1743
```

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu
                    165   170   175

Gly Ala Met Gly Ala Arg Arg Pro
                180

<210> 2251
<211> 352
<212> PRT
<213> Homo sapiens

<400> 2251
Met Val Glu Ala Leu Arg Ala Gly Ser Ala Arg Leu Val Ala Ala Pro
  1   5   10   15

Val Ala Thr Ala Asn Pro Ala Arg Cys Leu Ala Leu Asn Val Ser Leu
                20   25   30

Arg Glu Trp Thr Ala Arg Tyr Gly Ala Ala Pro Ala Ala Pro Arg Cys
            35   40   45

Asp Ala Leu Asp Gly Asp Ala Val Val Leu Leu Arg Ala Arg Asp Leu
        50   55   60

Phe Asn Leu Ser Ala Pro Leu Ala Arg Pro Val Gly Thr Ser Leu Phe
 65   70   75   80

Leu Gln Thr Ala Leu Arg Gly Trp Ala Val Gln Leu Leu Asp Leu Thr
                85   90   95

Phe Ala Ala Ala Arg Gln Pro Pro Leu Ala Thr Ala His Ala Arg Trp
                100   105   110

Lys Ala Glu Arg Glu Gly Arg Ala Arg Arg Ala Ala Leu Leu Arg Ala
            115   120   125

Leu Gly Ile Arg Leu Val Ser Trp Glu Gly Gly Arg Leu Glu Trp Phe
        130   135   140

Gly Cys Asn Lys Glu Thr Thr Arg Cys Phe Gly Thr Val Val Gly Asp
145   150   155   160

Thr Pro Ala Tyr Leu Tyr Glu Glu Arg Trp Thr Pro Pro Cys Cys Leu
                165   170   175

Arg Ala Leu Arg Glu Thr Ala Arg Tyr Val Val Gly Val Leu Glu Ala
            180   185   190

1744

Ala Gly Val Arg Tyr Trp Leu Glu Gly Gly Ser Leu Leu Gly Ala Ala
        195   200   205

Arg His Gly Asp Ile Ile Pro Trp Asp Tyr Asp Val Asp Leu Gly Ile
        210   215   220

Tyr Leu Glu Asp Val Gly Asn Cys Glu Gln Leu Arg Gly Ala Glu Ala
225   230   235   240

Gly Ser Val Val Asp Glu Arg Gly Phe Val Trp Glu Lys Ala Val Glu
                245   250   255

Gly Asp Phe Phe Arg Val Gln Tyr Ser Glu Ser Asn His Leu His Val
                260   265   270

Asp Leu Trp Pro Phe Tyr Pro Arg Asn Gly Val Met Thr Lys Asp Thr
        275   280   285

Trp Leu Asp His Arg Gln Asp Val Glu Phe Pro Glu His Phe Leu Gln
        290   295   300

Pro Leu Val Pro Leu Pro Phe Ala Gly Phe Val Ala Gln Ala Pro Asn
305   310   315   320

Asn Tyr Arg Arg Phe Leu Glu Leu Lys Phe Gly Pro Gly Val Ile Glu
                325   330   335

Asn Pro Gln Tyr Pro Asn Pro Ala Leu Leu Ser Leu Thr Gly Ser Gly
                340   345   350

<210> 2252
<211> 448
<212> PRT
<213> Homo sapiens

<400> 2252
Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Leu Pro
  1   5   10   15

Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala
                20   25   30

Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala
            35   40   45

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu
        50   55   60

1745

```
Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His
 65              70              75              80

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn
            85              90              95

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu
            100             105             110

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg
            115             120             125

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala
        130             135             140

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu
145             150             155             160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser
            165             170             175

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile
            180             185             190

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val
        195             200             205

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala
        210             215             220

Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr
225             230             235             240

Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr
            245             250             255

Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Leu Gln
            260             265             270

Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp
            275             280             285

Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val
        290             295             300

Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu
305             310             315             320

Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg
            325             330             335
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```
Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe
            340             345             350

Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu
        355             360             365

Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp
    370             375             380

Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp
385             390             395             400

Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp
                405             410             415

His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val
            420             425             430

Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp
        435             440             445
```

<210> 2253
<211> 183
<212> PRT
<213> Homo sapiens

<400> 2253
```
Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro
  1             5                  10                  15

Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys
            20                  25                  30

Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser
            35                  40                  45

Glu Glu Trp Met His Val Leu Glu Asp Ile Ala Lys Phe Phe Lys Ala
        50                  55                  60

Ile Val Gly Lys Asn Leu Pro Asp Glu Glu Ile Phe Gln Gln Leu Asn
 65                  70                  75                  80

Gln Leu Asn Ser Leu His Gln Glu Thr Ile Met Lys Cys Val Lys Ser
                85                  90                  95

Arg Lys Asp Glu Ile Lys Gln Ala Leu Ser Arg Glu Ile Val Ala Ile
            100                 105                 110
```

1747

Ser Ser Ala Gln Leu Gln Asp Phe Asp Trp Gln Val Lys Leu Ala Leu
        115   120   125

Ser Ser Asp Lys Ile Ala Ala Leu Arg Met Pro Leu Leu Ser Leu His
        130   135   140

Leu Asp Val Lys Glu Asn Gly Glu Val Lys Pro Tyr Ser Ile Glu Met
145   150   155   160

Ser Arg Glu Glu Leu Gln Asn Leu Ile Gln Ser Leu Glu Ala Ala Asn
                165   170   175

Lys Val Val Leu Gln Leu Lys
                180

<210> 2254
<211> 121
<212> PRT
<213> Homo sapiens

<400> 2254
Met Pro Cys Gly Arg Gln His Leu Gln Asn Leu Asp Asp Ala Val Asn
  1   5   10   15

Gly Ser Ala Trp Thr Ile Leu Leu Leu Thr Glu Asn Phe Leu Arg Asp
                20   25   30

Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn
            35   40   45

Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn
    50   55   60

Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala
 65   70   75   80

Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe
                85   90   95

Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg
                100   105   110

Asn Met Val Gln Arg Gln Phe Ile Ala
        115   120

<210> 2255
<211> 251

1748

<212> PRT
<213> Homo sapiens

<400> 2255
Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln
 1   5   10   15

Val Val Thr Ile Ala Val Tyr Ser Phe Phe Ala Leu Ser Leu Val Gly
            20   25   30

Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu
            35   40   45

Leu Lys Pro Gly Gln Glu Pro Ala Pro Ala Leu Gly Asp Pro Asp Met
        50   55   60

Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Phe Tyr Ala Gly Trp
 65   70   75   80

Leu Lys Val Ala Glu Gln Ile Ile Asn Pro Phe Gly Glu Asp Asp Asp
                85   90   95

Asp Phe Glu Thr Asn Gln Leu Ile Asp Arg Asn Leu Gln Val Ser Leu
            100   105   110

Leu Ser Val Asp Glu Met Tyr Gln Asn Leu Pro Pro Ala Glu Lys Asp
            115   120   125

Gln Tyr Trp Asp Glu Asp Gln Pro Gln Pro Pro Tyr Thr Val Ala Thr
        130   135   140

Ala Ala Glu Ser Leu Arg Pro Ser Phe Leu Gly Ser Thr Phe Asn Leu
145   150   155   160

Arg Met Ser Asp Asp Pro Glu Gln Ser Leu Gln Val Glu Ala Ser Pro
                165   170   175

Gly Ser Gly Arg Pro Ala Pro Ala Ala Gln Thr Pro Leu Leu Gly Arg
                180   185   190

Phe Leu Gly Val Gly Ala Pro Ser Pro Ala Ile Ser Leu Arg Asn Phe
            195   200   205

Gly Arg Val Arg Gly Thr Pro Arg Pro Pro His Leu Leu Arg Phe Arg
        210   215   220

Ala Glu Glu Gly Gly Asp Pro Glu Ala Ala Ala Arg Ile Glu Glu Glu
225   230   235   240

Ser Ala Glu Ser Gly Asp Glu Ala Leu Glu Pro
                245   250

<210> 2256
<211> 125
<212> PRT
<213> Homo sapiens

<400> 2256
Met Arg Pro Gly Lys Lys Val Leu Val Met Gly Ile Val Asp Leu Asn
 1   5   10   15

Pro Glu Ser Phe Ala Ile Ser Leu Thr Cys Gly Asp Ser Glu Asp Pro
                20   25   30

Pro Ala Asp Val Ala Ile Glu Leu Lys Ala Val Phe Thr Asp Arg Gln
                35   40   45

Leu Leu Arg Asn Ser Cys Ile Ser Gly Glu Arg Gly Glu Glu Gln Ser
        50   55   60

Ala Ile Pro Tyr Phe Pro Phe Ile Pro Asp Gln Pro Phe Arg Val Glu
 65   70   75   80

Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln
                85   90   95

Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr
                100   105   110

Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly
        115   120   125

<210> 2257
<211> 170
<212> PRT
<213> Homo sapiens

<400> 2257
Met Ile Ser Ile His Asn Glu Glu Asn Ala Phe Ile Leu Asp Thr
 1   5   10   15

Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe
                20   25   30

Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met
                35   40   45

Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Asp Glu Asp Leu Val Asp
        50   55   60

1750

Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn
65   70   75   80

Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro
                85   90   95

Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu
            100   105   110

Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp
            115   120   125

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser
    130   135   140

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly
145   150   155   160

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp
                165   170

<210> 2258
<211> 595
<212> PRT
<213> Homo sapiens

<400> 2258
Met Leu Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Cys Gly Arg Val
1   5   10   15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val
            20   25   30

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr
            35   40   45

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe
    50   55   60

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn
65   70   75   80

Pro Ala Arg Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu
                85   90   95

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg
            100   105   110

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met
            115   120   125

1751

```
Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser
    130             135             140

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr
145             150             155             160

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro
            165             170             175

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys
            180             185             190

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro
            195             200             205

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Leu Gly
    210             215             220

Asp Pro Gln Thr Asn Asn Cys Ser Leu Ser Ile Arg Asp Ala Arg Lys
225             230             235             240

Gly Asp Ser Gly Lys Tyr Tyr Phe Gln Val Glu Arg Gly Ser Arg Lys
            245             250             255

Trp Asn Tyr Ile Tyr Asp Lys Leu Ser Val His Val Thr Ala Leu Thr
            260             265             270

His Met Pro Thr Phe Ser Ile Pro Gly Thr Leu Glu Ser Gly His Pro
            275             280             285

Arg Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln Gly Thr Pro
    290             295             300

Pro Thr Ile Thr Trp Met Gly Ala Ser Val Ser Ser Leu Asp Pro Thr
305             310             315             320

Ile Thr Arg Ser Ser Met Leu Ser Leu Ile Pro Gln Pro Gln Asp His
            325             330             335

Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala Gly Val Thr
            340             345             350

Met Thr Arg Ala Val Arg Leu Asn Ile Ser Tyr Pro Pro Gln Asn Leu
            355             360             365

Thr Met Thr Val Phe Gln Gly Asp Gly Thr Ala Ser Thr Thr Leu Arg
    370             375             380

Asn Gly Ser Ala Leu Ser Val Leu Glu Gly Gln Ser Leu His Leu Val
385             390             395             400
```

Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr Trp Gly
                405   410   415

Ser Leu Thr Leu Ser Pro Ser Gln Ser Ser Asn Leu Gly Val Leu Glu
                420   425   430

Leu Pro Arg Val His Val Lys Asp Glu Gly Glu Phe Thr Cys Arg Ala
            435   440   445

Gln Asn Pro Leu Gly Ser Gln His Ile Ser Leu Ser Leu Ser Leu Gln
    450   455   460

Asn Glu Tyr Thr Gly Lys Met Arg Pro Ile Ser Gly Val Thr Leu Gly
465   470   475   480

Ala Phe Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Tyr Phe Cys
                485   490   495

Ile Ile Phe Val Val Val Arg Ser Cys Arg Lys Lys Ser Ala Arg Pro
            500   505   510

Ala Val Gly Val Gly Asp Thr Gly Met Glu Asp Ala Asn Ala Val Arg
            515   520   525

Gly Ser Ala Ser Gln Gly Pro Leu Ile Glu Ser Pro Ala Asp Asp Ser
    530   535   540

Pro Pro His His Ala Pro Pro Ala Leu Ala Thr Pro Ser Pro Glu Glu
545   550   555   560

Gly Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys Ala Arg Pro Gln
                565   570   575

Tyr Pro Gln Glu Gln Glu Ala Ile Gly Tyr Glu Tyr Ser Glu Ile Asn
                580   585   590

Ile Pro Lys
        595

<210> 2259
<211> 274
<212> PRT
<213> Homo sapiens

<400> 2259
Met Ser Ser Asn Gly Ile Pro Glu Cys Tyr Ala Glu Glu Asp Glu Phe
 1   5   10   15

Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val
            20   25   30

1753

```
Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr
        35              40                  45

Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu
    50              55                  60

Gly Ala Ile Ser Ser Phe Pro Glu Glu Glu Phe Asp Leu Ala Gly Arg
65              70                  75                      80

Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr Leu Asn Lys Asp Pro Ser
                85              90                  95

Ala Pro Cys Ser Leu Thr Asp Ala Leu Asp His Phe Gln Val Asp Ser
            100             105             110

Leu Asp Glu Ile Ile Pro Asn Asp Leu Lys Lys Ser Asp Leu Pro Pro
        115             120             125

Gln His Ala Pro Arg Asn Ile Thr Val Val Ala Val Glu Gly Cys His
    130             135             140

Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr Pro Gly Asp Val Val
145             150             155             160

Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr Glu Asp Phe Ile Arg Asn
            165             170             175

Lys Trp Ser Thr Gln Ala Ser Ser Val Thr His Leu Pro Ile Glu Asn
        180             185             190

Leu Lys Pro Asn Thr Arg Tyr Tyr Phe Lys Val Gln Ala Gln Asn Pro
        195             200             205

His Gly Tyr Gly Pro Ile Ser Pro Ser Val Ser Phe Val Thr Glu Ser
    210             215             220

Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp
225             230             235             240

Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly
            245             250             255

Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp
            260             265             270

Ser Leu
```

<210> 2260

1754

<211> 468
<212> PRT
<213> Homo sapiens

<400> 2260
Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala
 1   5   10   15

Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp
                20   25   30

Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser
            35   40   45

Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe
        50   55   60

Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg
65   70   75   80

Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu
                85   90   95

Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu
            100   105   110

Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly
            115   120   125

Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr
        130   135   140

Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg
145   150   155   160

Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala
                165   170   175

Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu
            180   185   190

Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly
            195   200   205

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala
        210   215   220

Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro
225   230   235   240

Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp
                245   250   255

1755

```
Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr
            260               265               270

Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser
            275               280               285

Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp
    290               295               300

Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr
305               310               315               320

Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser
            325               330               335

Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly Gly Thr Leu Thr
            340               345               350

Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val
            355               360               365

Ala Leu Leu Val Arg Gly Arg Gly Ala Gly Asn Gly Arg Leu Pro Leu
    370               375               380

Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr
385               390               395               400

Pro Lys Ala His Pro Pro Arg Ser Pro Pro Arg Pro Gln Arg Ser
            405               410               415

Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg
            420               425               430

Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu
            435               440               445

Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu
    450               455               460

Glu Ser Val Val
465


<210> 2261
<211> 86
<212> PRT
<213> Homo sapiens

<400> 2261
Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly Ala Ser Leu Ala
```

```
         1                  5                      10                     15
    Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His Gln Ala Gln Leu
                 20                  25                  30

    His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met Asp Gln Pro Arg
                 35                  40                  45

    Pro Ser Ala Arg Gln Glu Pro Pro Thr Ala Asn Gly Lys Gly Leu Leu
             50                  55                  60

    Ser Arg Lys Thr Ile Pro Leu Glu Pro Gly Ile Gly Lys Met Ile Ile
    65                  70                  75                  80

    Ser Thr Thr Ser Arg Leu
                     85


    <210> 2262
    <211> 105
    <212> PRT
    <213> Homo sapiens

    <400> 2262
    Met Lys Gly Ser Arg Ala Leu Leu Leu Val Ala Leu Thr Leu Phe Cys
    1                  5                      10                  15

    Ile Cys Arg Met Ala Thr Gly Glu Asp Asn Asp Glu Phe Phe Met Asp
                 20                  25                  30

    Phe Leu Gln Thr Leu Leu Val Gly Thr Pro Glu Glu Leu Tyr Glu Gly
                 35                  40                  45

    Thr Leu Gly Lys Tyr Asn Val Asn Glu Asp Ala Lys Ala Ala Met Thr
         50                  55                  60

    Glu Leu Lys Ser Cys Ile Asp Gly Leu Gln Pro Met His Lys Ala Glu
    65                  70                  75                  80

    Leu Val Lys Leu Leu Val Gln Val Leu Gly Ser Gln Asp Gly Ala Gly
                 85                  90                  95

    Thr Asp Tyr Lys Asp Asp Asp Lys
                 100                 105


    <210> 2263
    <211> 167
    <212> PRT
    <213> Homo sapiens
```

<400> 2263
Met Ala Ala Ser Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser
1   5   10   15

Trp Ser Arg Glu Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro
                20   25   30

Val Cys Ala Lys Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp
            35   40   45

Lys Pro Val Thr Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His
        50   55   60

Arg Lys Gly Trp Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp
65   70   75   80

His Ala Ala Glu Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met
                85   90   95

Trp Gly Thr Phe Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg
                100   105   110

Arg Gly Asn Gln Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser
            115   120   125

Pro His Lys Tyr Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser
        130   135   140

Tyr Phe Tyr Lys Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser
145   150   155   160

Lys Val Val Tyr Lys Tyr Leu
                165

<210> 2264
<211> 203
<212> PRT
<213> Homo sapiens

<400> 2264
Met Ala Arg Pro Arg Pro Arg Glu Tyr Lys Ala Gly Asp Leu Val Phe
1   5   10   15

Ala Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Glu Leu
                20   25   30

Pro Glu Gly Ala Val Lys Pro Pro Ala Asn Lys Tyr Pro Ile Phe Phe
            35   40   45

1758

Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro
    50   55   60

Tyr Lys Glu Tyr Lys Asp Lys Phe Gly Lys Ser Asn Lys Arg Lys Gly
65   70   75   80

Phe Asn Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Gly Val Lys Phe
            85   90   95

Thr Gly Tyr Gln Ala Ile Gln Gln Gln Ser Ser Ser Glu Thr Glu Gly
            100   105   110

Glu Gly Gly Asn Thr Ala Asp Ala Ser Ser Glu Glu Glu Gly Asp Arg
            115   120   125

Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser
    130   135   140

Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg
145   150   155   160

Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Glu Asn
            165   170   175

Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn Thr
            180   185   190

Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr
            195   200

<210> 2265
<211> 253
<212> PRT
<213> Homo sapiens

<400> 2265
Met Arg Ser Gly Lys Met Ala Pro Lys Pro Gln Ser Arg Cys Thr Ser
  1   5   10   15

Thr Arg Ser Ala Gly Glu Ala Pro Ser Glu Asn Gln Ser Pro Ser Lys
            20   25   30

Gly Pro Glu Glu Ala Ser Ser Glu Val Gln Asp Thr Asn Glu Val His
            35   40   45

Val Pro Gly Asp Gln Asp Glu Pro Gln Thr Leu Gly Lys Lys Gly Ser
    50   55   60

Lys Asn Asn Ile Ser Val Tyr Met Thr Leu Asn Gln Lys Lys Ser Asp
 65   70   75   80

1759

Ser Ser Ser Ala Ser Val Cys Ser Ile Asp Ser Thr Asp Asp Leu Lys
            85   90   95

Ser Ser Asn Ser Glu Cys Ser Ser Ser Glu Ser Phe Asp Phe Pro Pro
            100   105   110

Gly Ser Met His Ala Pro Ser Thr Ser Ser Thr Ser Ser Ser Ser Lys
            115   120   125

Glu Glu Lys Lys Leu Ser Asn Ser Leu Lys Met Lys Val Phe Ser Lys
            130   135   140

Asn Val Ser Lys Cys Val Thr Pro Asp Gly Arg Thr Ile Cys Val Gly
145   150   155   160

Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg
            165   170   175

Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg
            180   185   190

Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu
            195   200   205

Ala Leu Ser Gln Leu Ser Pro Phe Leu Glu Asn Phe Gln Ser Arg Phe
            210   215   220

Asn Lys Lys Arg Lys Gly Leu Tyr Arg Lys Ala Ile Thr Glu Ala Ala
225   230   235   240

Lys Ala Ala Lys Gln Leu Thr Pro Glu Val Arg Ala Cys
            245   250

<210> 2266
<211> 314
<212> PRT
<213> Homo sapiens

<400> 2266
Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys
 1   5   10   15

Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala
            20   25   30

Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Phe Gly Thr His
            35   40   45

Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Asp Lys Cys

1760

Lys Asp Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly
 65   70   75   80

Leu Trp Glu Ile Gln Asn Asn Pro His Ala Ser Tyr Ser Ala Pro Pro
  ·   85   90   95

Pro Val Ser Ser Ser Asp Ser Glu Ala Pro Glu Ala Asn Pro Ala Asp
             100   105   110

Gly Ser Asp Ala Asp Glu Asp Asp Glu Asp Arg Gly Val Met Ala Val
         115   120   125

Thr Ala Val Thr Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser
     130   135   140

Asp Ser Asp Lys Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro
145   150   155   160

Ala Leu Lys Met Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp
             165   170   175

Leu Asp Gln Ala Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser
         180   185   190

Ser Ser Glu Ser Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys
         195   200   205

Lys Ala Ala Val Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys
     210   215   220

Lys Lys Lys Ala Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser
225   230   235   240

Asp Gly Ala Lys Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser
             ·245   250   255

Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys
             260   265   270

Pro Pro Arg Gly Arg Lys Pro Thr Glu Lys Pro Leu Pro Lys Pro Arg
         275   280   285

Gly Arg Lys Pro Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp
     290   295   300

Ser Asp Ser Asp Glu Val Asp Arg Ile Thr
305   310

<210> 2267
<211> 281
<212> PRT
<213> Homo sapiens

<400> 2267

```
Met Gly Ser Arg Gly Gln Gly Leu Leu Leu Ala Tyr Cys Leu Leu Leu
 1               5                  10                  15

Ala Phe Ala Ser Gly Leu Val Leu Ser Arg Val Pro His Val Gln Gly
                20                  25                  30

Glu Gln Gln Glu Trp Glu Gly Thr Glu Glu Leu Pro Ser Pro Pro Asp
             35                  40                  45

His Ala Glu Arg Ala Glu Glu Gln His Glu Lys Tyr Arg Pro Ser Gln
         50                  55                  60

Asp Gln Gly Leu Pro Ala Ser Arg Cys Leu Arg Cys Cys Asp Pro Gly
 65                  70                  75                  80

Thr Ser Met Tyr Pro Ala Thr Ala Val Pro Gln Ile Asn Ile Thr Ile
                 85                  90                  95

Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Arg Gly Leu Gln Gly Lys
                100                 105                 110

Tyr Gly Lys Thr Gly Ser Ala Gly Ala Arg Gly His Thr Gly Pro Lys
                115                 120                 125

Gly Gln Lys Gly Ser Met Gly Ala Pro Gly Glu Arg Cys Lys Ser His
        130                 135                 140

Tyr Ala Ala Phe Ser Val Gly Arg Lys Lys Pro Met His Ser Asn His
145                 150                 155                 160

Tyr Tyr Gln Thr Val Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp
                165                 170                 175

His Phe Asn Met Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu
                180                 185                 190

Tyr Phe Phe Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr
                195                 200                 205

Leu His Ile Met Lys Asn Glu Glu Glu Val Ala Ile Leu Phe Ala Gln
        210                 215                 220

Val Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu
225                 230                 235                 240

Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg Glu
```

```
         245                     250                     255

Asn Ala Ile Phe Ser Glu Glu Leu Asp Thr Tyr Ile Thr Phe Ser Gly
         260                     265                 270

Tyr Leu Val Lys His Ala Thr Glu Pro
         275                 280


<210> 2268
<211> 733
<212> DNA
<213> Homo sapiens

<400> 2268
gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg      60

aattcgaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga     120

tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg     180

tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg     240

aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact     300

ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg     360

agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc     420

catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct     480

atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga     540

ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg     600

acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc     660

acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc     720

gactctagag gat                                                        733


<210> 2269
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<221> misc_structure
<223> membrane proximal motif of class 1 cytokine receptors

<220>
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<221> misc_feature
<222> (3)
<223> Xaa equals any

<400> 2269
Trp Ser Xaa Trp Ser
  1   5

<210> 2270
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> forward primer useful for generation of a synthetic gamma
activation site (GAS) containing promoter element

<400> 2270
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc   60

cccgaaatat ctgccatctc aattag   86

<210> 2271
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> reverse primer useful for generation of a synthetic gamma
activation site (GAS) containing promoter element

<400> 2271
gcggcaagct ttttgcaaag cctaggc   27

<210> 2272
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<223> Synthetic GAS-SV40 promoter sequence

<400> 2272
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg   60

aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc   120

gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat   180

ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt   240

ttttggaggc ctaggctttt gcaaaaagct t   271

<210> 2273
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> primer useful for generation of a EGR/SEAP reporter construct

<400> 2273
gcgctcgagg gatgacagcg atagaacccc gg   32

<210> 2274
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> primer useful for generation of a EGR/SEAP reporter construct

<400> 2274
gcgaagcttc gcgactcccc ggatccgcct c   31

<210> 2275
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_binding
<223> NF-KB binding site

<400> 2275
ggggactttc cc   12

<210> 2276
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> forward primer useful for generation of a vector containing the
NF-KB promoter element

<400> 2276
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg   60

ccatctcaat tag   73

<210> 2277
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<223> Synthetic NF-KB/SV40 promoter

<400> 2277
ctcgaggggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct   60

caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc   120

cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga   180

ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg   240

cttttgcaaa aagctt   256